

UNIVERSITY GRANTS COMMISSION

PROCEEDINGS OF THE 93RD MEETING OF THE UNIVERSITY
GRANTS COMMISSION HELD IN NEW DELHI ON 6TH MARCH, 1968.

The following were present:

1.	Dr. D. S. Kothari	Chairman
2.	Dr. S. Dhawan	Member
3.	Dr. P. B. Gajendragadkar	"
4.	Prof. V. K. Gokak	"
5.	Dr. D. S. Reddi	"
6.	Shri B. Shiva Rao	"
7.	Prof. A. R. Wadia	"
8.	Shri G. K. Chandiramani (By special invitation)	
9.	Dr. P. J. Philip	Secretary

Secretariat

1.	Shri R. K. Chhabra	Joint Secretary
2.	Dr. D. Shankar Narayan	"
3.	Dr. R. C. Gupta	Development Officer
4.	Dr. R. D. Deshpande	"
5.	Dr. J. N. Kaul	"
6.	Dr. S. K. Das Gupta	"

Apology for absence was received from Shri P. N. Kirpal.

The Chairman welcomed Prof. V. K. Gokak the new member of the Commission.

Item No. 1 : To consider the minutes of the meeting of the Commission held on 7th February, 1968.

The minutes of the 92nd meeting of the University Grants Commission held on 7th February, 1968, already circulated were confirmed.

Item No. 2 : (a) To approve the action taken on certain matters.
(b) To receive items of information.

(a) The Commission approved the action taken on items listed in Appendix I.*

(b) This was noted. With regard to Item No. 2(b-2) - report made by Mr. A. J. Grayson of the British Forestry Commission in connection with his visit to the Centre of Advanced Study in Economics, University of Poona - the Commission desired that the attention of the Planning Commission may be invited to the suggestions made by Mr. Grayson.

Item No. 3 : To approve the statement of grants released after the last meeting of the Commission held on 7th February, 1968.

The Commission approved the grants released after the last meeting of the Commission (held on 7th February, 1968) as in Appendix II.*

* Not enclosed.

Item No. 4 : To receive a statement of expenditure incurred by the University Grants Commission during 1967-68 (upto 31st January, 1968).

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This was noted.

Item No. 5 : To receive a note on the number and locations of the Summer Institutes to be organised during the summer 1968 for school and college teachers.

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The Commission noted the number and locations of the summer institutes to be held during 1968. The Commission approved generally the list of equipment (as recommended by the Directors) to be procured from the U.S.A., but desired that further scrutiny be made and steps be taken to obtain from indigenous sources as much of the equipment as possible. It was suggested that advice regarding indigenous availability of items in the list, or their substitutes, be obtained from the Central Scientific Instruments Organisation (Chandigarh), Central Electronics Laboratory (Pilani) and Indian Institute of Science (Bangalore).

Item No. 6 : To receive a note on the number and locations of the summer institutes in English Language for College teachers to be organised during 1968.

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The Commission generally accepted the recommendations of the Advisory Committee on Summer Institutes in English Language Teaching and desired that concrete proposals in this regard be processed in the usual manner and placed before the Commission, as and when necessary.

Item No. 7 : To consider the following recommendations of the A.I.C.T.E.

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- (a) Fourth Plan proposals of the Banaras Hindu University relating to engineering and technological education;
 - (b) Introduction of post-graduate courses in Business Management at Banaras Hindu University.
 - (c) Provision of students' amenities at Jadavpur University.
 - (d) Additional grant for the purchase of equipment for post-graduate courses in engineering at Jadavpur University.

(a) The Commission noted that the Faculty of Engineering and Technology at the Banaras Hindu University needed further development. A Committee of the UGC may discuss with the Vice-Chancellor the report of the Committee of the A.I.C.T.E. and also the re-organisation and strengthening of engineering education and research at the Banaras Hindu University, and the matter placed before the Commission at a later meeting.

(b) Consideration of this item was postponed to the next meeting. In this connection it was noted that the views of the Board of Management Studies set up by the AICTE regarding the development of Business Management Courses in the University would also be available by that time.

(c) The Commission accepted the recommendations of the AICTE regarding provision of students' amenities at the Jadavpur University, as indicated below:

<u>Non-Recurring (Buildings)</u>	<u>Approved Expenditure</u>
(a) (i) Canteen with kitchen etc. = 5,200 sq.ft. (plinth area)	
(ii) Common Room = 3,200 sq.ft. (plinth area)	Rs. 2,52,000
Total Plinth Area = 8,400 sq.ft. @ Rs.30/-per sq.ft.	
(b) Cycle stand for 1500 cycles @ Rs.20/- each.	Rs. 30,000
Total	Rs.2,82,000
UGC's share @ 50: 50	Rs.1,41,000

It was noted that the facilities to be provided should be available for all students in the university and not for the engineering students only. The Commission further agreed that depending upon the availability of funds such facilities should be made available at other universities also.

(d) It was agreed that the proposal may be considered, in the first instance, by the Expert Committee appointed by the University Grants Commission for engineering education.

Item No.8 : To consider the proposal of the Department of Social Welfare for the establishment of a National Council of Social Work Education and Training.

The Commission considered the proposal of the Department of Social Welfare for the establishment of a National Council of Social Work Education and Training. The Commission felt that at this stage of development of studies at the university level in social work and allied fields it would be more appropriate and better serve the interests of the subject, if instead of a Council a Standing Advisory Committee of the UGC is constituted in consultation with the Department of Social Welfare.

Item No.9 : To consider the Report of the Panel on Employment Information and Students Service Bureaux.

This was withdrawn.

Item No.10 : To consider the Report of the Committee appointed by the University Grants Commission to advise on the operational details regarding payment of direct subsidy to college students for purchasing text books.

The Commission accepted the broad guide lines for the operation of the scheme as given in Appendix III. The Commission further agreed that the Government of India be approached, as originally envisaged in the proposal, for additional funds required for implementation of the scheme.

Item No. 11 : To consider the Report of the Committee appointed by the University Grants Commission to consider the integration of the Scheme of Historical Grammar of Hindi language and survey of literature of the Banaras Hindu University with the Hindi Department.

The Commission generally accepted the recommendations of the Committee and agreed that the Banaras Hindu University may be asked to terminate the project with effect from 30th June, 1963. The two volumes stated to have been finalised may be referred to experts for advice regarding their suitability for publication.

Item No. 12 : To consider the report of the Committee appointed by University Grants Commission to review the working of the Hyderabad Metro-politan Project of the Osmania University.

The Commission generally accepted the recommendations of the Committee and agreed to provide a grant of Rs. 1,59,600 for the period from April 1968 to March 1971, on condition that this will be accommodated by the University within 70 per cent of its Fourth Plan allocation, and the recurring expenditure on the scheme beyond this period would be met by the University from its own resources. The Commission also agreed to give assistance to the University on a cent per cent basis for the year 1967-68, against the approved expenditure on the project, within 70 per cent of the Fourth Plan allocation of the University.

Item No. 13 : To consider a proposal from Gujarat University regarding additional grant for the construction of buildings for the Departments of Physics, Chemistry, Botany and Mathematics.

The Commission accepted the proposal of the Gujarat University for additional grant for the construction of buildings for the Department of Physics, Chemistry, Botany and Mathematics, subject to verification of rates by the local P.W.D. and provided that the additional expenditure involved would be met within 70 per cent of the Fourth Plan allocation of the University.

Item No. 14 : To consider the following proposals of the Gujarat Vidyapith:

- (a) for extending facilities in Ph.D. in other subjects of Social Sciences and Humanities;
- (b) assistance outside Fourth Plan allocation towards establishment of the Printing Press.

(a) It was agreed that the proposal of the Gujarat Vidyapith may be referred to the Committee appointed to review the working of the Vidyapith.

(b) The Commission could not accept the proposal of the Gujarat Vidyapith for assistance for establishment of the printing press outside 70 per cent of the Fourth Plan allocation of the Vidyapith.

(5)

Item No. 15 : To consider the proposal of the Aligarh Muslim University for an additional grant for the installation of a lift in the Arts Faculty building.

The Commission regretted its inability to accept the proposal of the Aligarh Muslim University for a grant for the installation of a lift in the Arts Faculty. In this connection the Commission desired that no lifts be provided in buildings which do not have more than three floors.

Item No. 16 : To consider a proposal received from the Jamia Millia Islamia to utilise the unspent balance out of the grant paid for organising a Seminar on Historians of Medieval India towards publication of the proceedings of the Seminar.

The Commission accepted the proposal of the Jamia Millia Islamia for publication of the proceedings of the Seminar on Historians of Medieval India, provided that following the usual practice no honoraria are paid to the contributors of papers.

Item No. 17 : To consider the proposals received from Kerala University for development of post-graduate departments of basic sciences in affiliated colleges.

It was agreed that the proposals received from the Kerala University for development of post-graduate science departments in the affiliated colleges be referred to the committee/committees being appointed to visit the colleges of the Kerala University. The requirements of the colleges in respect of books may, however, be examined and necessary assistance provided.

Item No. 18 : To consider the request of the Patna University for giving assistance towards revision of salaries of the teachers appointed against posts created after the implementation of the scheme.

The Commission felt that the proposal needed further examination, and the matter may be brought up again at a later meeting.

Item No. 19 : To consider the proposal of the Bihar Government regarding continuance of Commission's assistance towards revision of the salary scales of university and college teachers beyond the Third Plan.

The Commission reiterated its earlier decision that, as in the case of other States, the Commission's assistance towards revision of scales of pay will cease with effect from the date the Fourth Plan scales are introduced.

Item No. 20 : To consider further the reference from the Sardar Patel University with regard to regional planning of higher education and specialisation in the interest of rational utilisation of resources.

It was noted that the information asked for from the University is awaited.

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Item No. 21 : To consider the request of the Varanaseya Sanskrit Vishwavidyalaya for an additional grant of Rs.5,000 for printing of Brochures, Proceedings etc., of the Conference entitled "Darshan Parishad".

The Commission decided that the full details of the Conference held and the expenditure incurred may be obtained in the first instance.

Item No. 22 : To consider a manuscript for publication of a brochure on various Cultural Exchange Programmes assigned to the University Grants Commission for implementation.

It was agreed that the brochure may be printed.

Item No. 23 : To consider the request of the New Science College, Hyderabad for an additional grant for the construction of a library and laboratory building

This was withdrawn, as the information asked for was still awaited.

Item No. 24 : To consider a proposal for assistance to Kala-Kendra, an institution recognised by Bhagalpur University.

The Commission noted that though the Kala Kendra was a recognised institution of the Bhagalpur University, it was not possible to give assistance to it as it was not included under Section 2(f) of the UGC Act.

Item No. 25 : To consider the basis of grants for Correspondence Courses.

The Commission agreed that grants to the universities of Rajasthan and Punjabi towards the institution of correspondence courses may be paid for a period of four years, subject to a ceiling of Rs. five lakhs for each university for this period. The scheme is expected to become self-supporting at the end of this period. The quantum of grant/assistance that may be released to the universities, in a particular year, will be related to the enrolment and the income from fees.

Item No. 26 : To consider the reports of the Visiting Committees appointed by the University Grants Commission to assess the Fourth Plan requirements of the universities.

The Commission considered the reports of the Visiting Committees of the universities/institutions deemed to be universities and agreed that the reports of the following universities/institutions deemed to be universities be accepted on the same basis as indicated in Commission's resolution No.12 dated 5th July, 1967:

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|---------------------|---|
| 1. Agra | 7. Varanaseya Sanskrit Vishwavidyalaya |
| 2. Bihar | 8. Visva-Bharati |
| 3. Bhagalpur | 9. Gurukul Kangri Vishwavidyalaya |
| 4. North Bengal | 10. Indian School of International Studies. |
| 5. Rabindra Bharati | 11. Kashi Vidyapith |
| 6. Roorkee | |

Consideration of the report of the Visiting Committee for Kalyani University was postponed to a later meeting.

Item No. 27 : To consider certain establishment matters of the University Grants Commission

- (a) To consider a request from Shri Rajinder Dayal, Section Officer (Grade II) for extension in service beyond the age of 60 years.
- (b) To consider a reference from the University Grants Commission Ministerial Staff Association for affording retirement benefits of past service rendered under the Government offices to the employees on their permanent absorption in the University Grants Commission
- (c) To consider a request from Shri M.L. Bhargava, Assistant Secretary (Administration) for permanent absorption in the University Grants Commission
- (d) To receive a copy of the notification issued by the Government of India amending the University Grants Commission (Terms and Conditions of Service of Employees) Rules, 1968.

(a) The Commission noted that the extension of service of Shri Rajinder Dayal beyond the age of 60 years was not permissible according to Rules. The Commission desired that in view of the hardship that would be caused to Shri Dayal and special circumstances of the case, his request to count his previous services towards pension may be accepted, as a special case, provided it does not contravene the present Service Rules.

(b) The Commission desired that the likely financial implications of the proposal be placed before the Commission at the next meeting.

(c) It was agreed that a committee may be set up to deal with establishment matters of the UGC and that the proposal be referred to this committee.

(d) This was noted.

Item No. 28 : To note the date and place of the next meeting of the University Grants Commission.

It was noted that the next meeting of the University Grants Commission will be held on 3rd April, 1968 in New Delhi.

Item No. 29 : To consider a proposal from the State Government of Kerala for the establishment of two new universities at Calicut and Ernakulam.

It was agreed that this matter may be referred to the Standing Committee on the establishment of New Universities.

Item No. 30 : To receive a note on the Audit and Inspection Notes on the accounts of the Lucknow University.

This was noted. The Commission desired that the Lucknow University be informed that the release of grants to the University during the year would become difficult unless satisfactory progress was made as regards settlement of the audit objections under reference.

Item No. 31 : To consider further the reference from the Government of India regarding employment opportunities for Muslims in Government service.

The Commission recognised the existence of the problem, but felt that the remedies suggested may not quite help in its solution. Other alternatives may have to be found for meeting the situation.

Item No. 32 : To consider the report of the Committee on Military Science and the views of the Ministry of Defence on the report.

The Commission desired that the report of the Committee on Military Science be circulated to the universities along with the views of the Ministry of Defence and the observations made regarding collaboration between the Defence Science laboratories and the science departments of the universities.

Item No. 33 : To consider a proposal from the Banaras Hindu University for introduction of a Health Service Scheme for the employees and students residing in the University campus.

It was agreed that this may be referred to the Committee of Vice-Chancellors of Central Universities.

Item No. 34 : To consider the proposal of the Panjab University regarding construction of an Extension Library at Ludhiana.

The Commission accepted the proposal of the Panjab University regarding construction of an Extension Library at Ludhiana at a cost not exceeding Rs. 8 lakhs, provided that the UGC's share could be met within 70 per cent of the Fourth Plan allocation of the university.

Item No. 35 : To consider the proposal from the Patna University for assistance for construction of a Jubilee Hall-cum-Auditorium out of the special grant of Rs. ten lakhs sanctioned on the occasion of the Golden Jubilee Celebrations of the University.

The Commission felt that instead of using the Golden Jubilee grant of Rs. 10 lakhs on the construction of an Auditorium, the University be requested to consider in this connection other high priority needs of the University.

Item No. 36 : To consider a note on the Operational Work Plan of the proposed Programme Agreement to be signed between the Government of India and the United States Agency for International Development.

The Commission accepted in principle the organisation of the summer institutes and other related programmes as indicated in the Operational Work Plan and desired that the financial implications of the programme, keeping in view the funds that may be available with the U.G.C., be placed before the Commission at the next meeting.

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Item No. 37: To receive a reference from the Government of India regarding visit of members of the Foreign Diplomatic and Consular Missions to educational institutions in border regions of India.

The Commission agreed that the attention of the Vice-Chancellors be invited to the suggestions made by the Ministry of Education regarding visits of members of the Foreign Diplomatic and Consular Missions to educational institutions in the border regions of India.

Item No. 38: To consider the terms and conditions of Research Training Scholarships transferred to the U.G.C. from the Ministry of Education.

The Commission agreed that the transfer of the scheme of research training scholarships to the U.G.C. be accepted and the same be operated in accordance with the rules and procedures of the Commission in this regard.

Item No. 39: To consider a proposal from the University of Delhi for assistance from Ford Foundation for the development of University Law Faculty.

Consideration of this item was postponed to the next meeting of the Commission.

Item No. 40: To consider further the proposal from Delhi University for assistance from the Ford Foundation for the development of University and Departmental libraries.

The Commission reiterated its earlier decision that the expenditure to be incurred on the staff and other facilities by the University to absorb the aid given by the Ford Foundation for library books may be provided within 70 per cent of the Fourth Plan allocation of the university.

Item No. 41: To consider the proposals from the Delhi University for instituting new courses in the Constituent Colleges of the University from the Academic Year 1968-69.

It was agreed that the proposal received from the Delhi University for instituting new Courses in the Colleges affiliated to the University of Delhi, from the academic year 1968-69, be referred to a committee.

Sd/-
(P.J. Philip)
Secretary

Sd/-
(D.S. Kohari)
Chairman

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 2(a): To approve action taken on certain matters.

- (1) Indian National Commission for Cooperation with UNESCO - Ministry of Education.

The Indian National Commission for Cooperation with UNESCO, Ministry of Education, sent a document concerning the study of Buddhist Arts, with the observations of the Director-General of Archaeology on it, for comments of the University Grants Commission.

The suggestion of the Director-General of Archaeology that the U.G.C. may create two research fellowships at Indian Universities for promoting study and research in Buddhist Art and Architecture has been accepted and the Ministry of Education informed accordingly.

- (2) Calcutta University - Diversion of funds from Recurring to Non-recurring head of expenditure under the scheme of development of Department of Ancient Indian History and Archaeology.

The Commission approved in October, 1964 a scheme of the Calcutta University for the establishment of a Museum for the exhibition of antiquities unearthed through excavation and for setting up a laboratory for cleaning and preservation of antiquities at a total cost of Rs.15,000, on condition that the expenditure is met by the University out of the savings of the recurring grant of Rs.75,000 p.a. sanctioned for the development of the department of Ancient Indian History and Archaeology, (Resolution No. 22 dated 26th/27th September, 1958). This appropriation of funds from Recurring to Non-recurring was not brought to the attention of the Commission. The Commission may approve the action taken.

- (3) Panjab University - Award of Junior Research Fellowship to Shri Sant Lal - Extension of award.

In September 1964, a Junior Research Fellowship of the value of Rs.300/-p.m. was awarded to Shri Sant Lal, a blind Hindi scholar of the Panjab University for a period of two years. In addition, the following facilities were also approved for a period of one year (from 26.2.1965 to 25.2.1966) :

- (a) An amanuensis at Rs.100/-p.m.
(b) Contingency for books and accessories etc. Rs.1000/-p.a.

The above facilities were extended upto 25.2.1967 on the recommendation of the Panjab University. It was reported to the Commission at its meeting on 5th May, 1966.

On the recommendation of the Panjab University, the fellowship of Shri Sant Lal has been further extended for a period of one year (26.2.1967 to 25.2.1968).

- (4) Saurashtra University - Basic grant for the purchase of library books and journals during Fourth Plan.

The Saurashtra University (set up in June, 1967) approached the Commission for a grant towards the purchase of library books and journals to meet its immediate requirements in the humanities, social sciences and science subjects. Pending the appointment of a Visiting Committee to assess the Fourth Plan requirements of the University, a "basic grant" of Rs.1,50,000 has been allocated to the University for books and journals.

- (5) Proposal from the University of Meerut - regarding financial assistance for the purchase of books to colleges doing post-graduate teaching in Physics.

On a proposal from the Meerut University for a special library grant to postgraduate colleges affiliated to the university for buying books and journals of an urgent nature for their departments of Mathematics, Physics and Commerce consequent upon the upgrading of courses in these subjects, the Commission at its meeting held on 2nd March, 1967 had agreed in principle to assist these colleges for purchasing books in Mathematics to the tune of an expenditure not exceeding Rs.15,000/-

Though the courses of almost all subjects under the University have been revised, the revision has been more drastic in Mathematics, Physics and Commerce. The Vice-Chancellor therefore stated that other departments viz., Physics and Commerce may also be provided with similar grants.

The Vice-Chancellor had also recommended such a grant for Departments of Physics of the following 14 colleges. Of these, assistance received by 4 colleges already included purchase of books. The remaining 10 colleges have, therefore, been sanctioned a special grant of Rs.10,000/- for the purchase of books @ Rs.1,000/- per college:-

M.Sc. (Physics) Classes

1. Meerut College, Meerut.
2. N.R.E.C. College, Khurja.
3. D.A.V. College, Dehradun.
4. M.M.H. College, Ghaziabad.
5. D.Jain College, Baraut.
6. Jat Vedic College, Baraut.
7. S.D. College, Muzaffarnagar.
8. D.A.V. College, Muzaffarnagar.
9. S.S.V. College, Hapur.
10. N.A.S. College, Meerut.
11. J.V.Jain College, Saharanpur.
12. M.M. College, Modinagar.
13. M.S. College, Saharanpur.
14. Guru Ram Rai College, Dehradun.

- (6) Panjab University - Centre of Advanced Study in Mathematics - Increase in the number of teachers under Teachers' Training Programme.

The Commission at its meeting held on 7th September, 1966 (Item No.2(a)-19) approved continuance, during the Fourth Plan period, of the teachers' training programme at the Centres of Advanced Study in Mathematics at the Universities of Panjab and Bombay. The scheme, as approved by the Commission during the Third Plan period, provided for training of six teachers at each of these Centres for a period of one academic year.

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Subsequently in 1967-68, the Panjab University stated that the teachers' training scheme had proved useful and proposed that the number of places available be raised from six to ten for the Fourth Plan period, in order to accommodate more teachers. The proposal of the University has been accepted, subject to the condition that atleast 50% of teachers would be drawn from colleges affiliated to other universities.

(7) Visit of Prof. S. Devons, F.R.S. Liverhulme
Visiting Professor to Andhra University.

Professor S. Devons visited Delhi from 14th to 18th January, 1968. He visited the National Physical Laboratory as also the Department of Physics, Delhi University. The expenditure towards his air travel (Vishakhapatnam-Hyderabad-Delhi-Madras-Vishakhapatnam - Rs. 999/-) was met by the University Grants Commission and the British Council provided subsistence for the period of his stay in Delhi.

(8) Provision of miscellaneous facilities in the
Faculty of Technology and Engineering - M.S. University
of Baroda.

The All India Council for Technical Education recommended provision of the following facilities at the M.S. University of Baroda at a total cost of Rs. 39,000/-

S.No.	Proposal	Approved Cost	UGC's 50% share
1)	Provision of Tentage Facility for field work in Surveying for students of Engineering Degree Courses.	Rs. 30,000	Rs. 15,000
11)	Air Conditioning of Bitumen Laboratory.	9,000	4,500
	Total	39,000	19,500

The recommendations of the A.I.C.T.E. have been accepted and the Commission's sanction amounting to Rs. 19,500 has been conveyed to the M.S. University of Baroda.

(9) Bombay University - Additional grant for laboratory fittings and electric fixtures under the conversion scheme in the department of Chemical Technology.

On the recommendations of the A.I.C.T.E., the Commission approved of certain non-recurring and recurring grants for the conversion of 2 year B.Sc.(Tech.) into a 3-Year Course in the Department of Chemical Technology at Bombay University and inter-alia agreed to an expenditure of Rs. 2,52,700 for the construction of a building. (Item 2(a-6) dated 7th April, 1964). On the basis of certificates from the local P.W.D. estimates of Rs. 3,34,563/- were accepted. The All India Council for Technical Education has recommended a further expenditure of Rs. 20,300/- for special laboratory fittings and electric fixtures for the building. The recommendation of the A.I.C.T.E. has been accepted, thus raising the total cost on the building to Rs. 3,54,863/- (U.G.C.'s share Rs. 1,77,432).

(13)

- (10) Acceptance of different items under the Indo-Bulgarian Cultural Exchange Programme 1967-69 received from the Ministry of Education for implementation by the University Grants Commission.

The following items under the Indo-Bulgarian Cultural Exchange Programme - 1967-69 have been accepted :

Item No.9 : The Indian side will send and Bulgarian side will receive one Professor/Scholar for a period of one month during 1968.

Item No.10 : Bulgarian side will send and Indian side will receive one Professor/Scholar for a period of one month in 1968.

- (11) Celebration of International Cooperation Year in the field of Education and Culture - National Essay Competition.

The Commission had decided to organise a national essay competition for students at the postgraduate and under-graduate levels, in connection with the celebration of International Cooperation Year in the fields of Education and Culture. The essay was to be in English on any one of the following subjects:

- (1) U.N. and maintenance of peace.
- (2) U.N. and the world food problem.
- (3) International Cooperation in Science and Education.
- (4) Role of U.N. in Social and Economic development of developing countries.
- (5) U.N. and International Culture Programmes.

The following three prizes have been awarded to the first three entries at the two levels:

<u>Postgraduate</u>	<u>Undergraduate</u>
Rs. 1500/-	Rs. 1000/-
Rs. 1000/-	Rs. 750/-
Rs. 750/-	Rs. 500/-

The Commission received 17 essays each for the postgraduate and undergraduate levels on the basis of a competition organised by the universities. The essays for the national competition have been evaluated and the following prizes awarded:

Postgraduate Students

1. First Prize Rs. 1500/- Shri R.M. Prabhu, Karnatak University
2. Second Prize Rs. 1000/- Shri Sanjaye Khettry, Calcutta University.

Undergraduate Students

1. First Prize Rs. 1000/- Shri V.S. Nadigar, Karnatak University.
2. Second Prize Rs. 750/- Shri K. Niranjan, Osmania University.
3. Third Prize Rs. 500/- Shri K. Chandra Sekhnan, Madurai University.

(14)

(12) Indian School of International Studies - Nomination of Vice-Chancellor on the Board of Governors of the

The following Vice-Chancellors had been nominated by the University Grants Commission on the Board of Governors of Indian School of International Studies, New Delhi:

- 1. Nawab Ali Yavar Jung Vice-Chancellor, Aligarh Muslim University.
- 2. Shri R.K.Nehru Vice-Chancellor, Allahabad University.
- 3. Dr.D.S. Reddi Vice-Chancellor, Osmania University.
- 4. Prof.M.V.Mathur Vice-Chancellor, Rajasthan University.
- 5. Shri I.J.Patel Vice-Chancellor, Sardar Patel University.

Consequent upon the resignation of Nawab Ali Yavar Jung from membership of the Board, Prof.A.Aleem, Vice-Chancellor, Aligarh Muslim University, has been nominated on the Board.

(13) Indian Institute of Science, Bangalore - Fixation of block grant for the period 1966-67 to 1970-71.

The Government of India, Ministry of Education had appointed a committee to determine the block grant payable to the Indian Institute of Science, Bangalore for the quinquennium 1966-71. The report of the Committee was placed before the Commission at its meeting in February 1967 (item No.11). The Ministry of Education have now sanctioned the payment of a block grant of Rs.112.00 lakhs per year to the Institute for meeting its maintenance expenditure during the three-year period 1968-69 to 1970-71. It had been stipulated that a provision of Rs.19 lakhs p.a. provided for the block grant for scholarships and fellowships should not be diverted to any other items of report.

(14) Extension of Award under the scheme of 'Utilisation of the Services of Retired Teachers'.

On the recommendation of the university/college concerned, eighteen retired teachers (as per Appendix I) who are working under the scheme, have been granted extension upto the period noted against their names.

(15) Award of Junior Research Fellowship in Humanities and Social Sciences to Shri Lalan Prasad Singh.

The application of Shri Lalan Prasad Singh for an award of Research Fellowship in Philosophy at Ranchi University was referred to Prof.G.C.Pande, Head of the Department of History and Indian Culture, Rajasthan University, Jaipur. On the recommendations of Prof.Pande and the Vice-Chancellor, Ranchi University, Shri L.P.Singh has been awarded a Junior Research Fellowship of the value of Rs.300/- p.m. during 1967-68 for the research project entitled "Tantra - Its mystic and Scientific Basis". This award is in addition to 77 Junior Fellowships during 1967-68 (second award) in Science and Humanities and Social Sciences.

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(16) Research Fellowships in Humanities, Social Sciences and Engineering and Technology - Extension of tenure beyond three years.

On the recommendations of the Supervisor and Head of the Department/Institution concerned, the tenure of the following two fellows has been extended beyond three years as indicated against their names:

S.No.	Name	Period of extension	Date of joining the fellowship	Date upto which the fellowship has been extended.
1.	Sh. Mohd. Shakeel Ahmed Siddiqui, Jr. Research Fellow in Persian (value of Rs. 300/-p.m.) Lucknow University.	Six months with effect from 1.2.1968	1.2.1965	31.7.1968
2.	Sh. B.K. Razdan, Research Fellow in Pharmacy (value of Rs. 400/-p.m.) Panjab University.	Six months with effect from 18.1.1968.	18.1.1965	17.7.1968

(17) Delhi University - Revision of scales of pay of Library Attendants.

At the suggestion of the Delhi University it has been agreed to revise the scales of pay of Library Attendants from Rs.75-1-85-EB-2-95. to Rs.80-1-85-2-95-EB-3-110. It has also been agreed to provide for a scale of Rs.95-3-128-EB-3-131-4-155 for senior library attendants. The University has been permitted to provide upto 50% of the existing posts of library attendant in the senior scale. The above revision is subject to the provision that the qualifications for recruitment to these posts will be the same as prescribed for corresponding posts in the U.G.C. and the University would keep them in view while giving the revised scales. The revised scales would be effective from 1st February, 1968. The benefit of the revised scales would also be extended to the Library Attendants in the colleges affiliated to the Delhi University which are receiving maintenance grants from the Commission.

(18) Delhi University Constituent Colleges - Bursar's Allowance for the "Evening Classes".

In the light of the recommendation of the Committee appointed by the Commission to consider the question of revision of the basis of maintenance grants to non-Government colleges affiliated to the Delhi University, which had been accepted by the Commission at its meeting held on the 3rd May, 1967 (vide item No. 27), the rate of Bursar's allowance in the Day Classes of the Delhi Colleges receiving maintenance grants from University Grants Commission had been enhanced from Rs. 50/- p.m. to Rs. 100/-p.m. with effect from 1.4.1967. The Delhi University made a reference that as the volume of work that the Bursars of the Evening Classes of the colleges are required to do and the responsibilities they are called upon to hold are in no way less than those of the Bursars of Day Classes, the benefit of increased rate of allowance (from Rs. 50/-p.m. to Rs. 100/-p.m.) may be allowed to the Bursars of the Evening Classes also. The proposal of the University has been accepted with effect from 1.2.1968.

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(19) Lucknow University - Naming of Men's Hostel constructed with the financial assistance from the University Grants Commission as "Lal Bahadur Shastri Hall".

The University Grants Commission at its meeting held on the 7th April, 1965 considered the report of the Committee set up by the Commission regarding naming of buildings constructed with the assistance of the Commission and accepted the recommendations of the Committee in this behalf which is reproduced below:

- (i) Ordinarily, the buildings of the teaching departments, laboratories should not be named after individuals. The library buildings, hostels and colleges could be named after persons of outstanding eminence in the field of teaching, research, scholarship and public service whose life and work would be a source of inspiration to the younger generation, provided that no building shall be named after a living person.
- (ii) The proposals for naming University buildings should emanate from the Syndicate or the Government and be subject to the concurrence of the University Grants Commission.
- (iii) No educational building should be named after Mahatma Gandhi and Jawahar Lal Nehru unless the purpose is commensurate with their eminence.

The Lucknow University approached the University Grants Commission with a proposal to name the men's hostel constructed with the financial assistance from the Commission as "Lal Bahadur Shastri Hall".

The above proposal of the Lucknow University has been accepted and the University informed accordingly.

(20) Arrears of Dearness Relief to the employees of the University Grants Commission Department Canteen.

The Ministry of Home Affairs, Government of India, in their Office Memo. No. 5/19/65-Welfare dated 31.1.1966 conveyed the decision of the General Advisory Committee for canteens to the payment of Dearness Relief with effect from 1.1.1966 to the staff who may be employed in Departmental/Co-operative Canteens at the rates mentioned below:

<u>Basic Pay</u>	<u>Dearness Relief</u>
Upto Rs. 100/- p.m.	Rs. 17.50
Rs. 101/- to Rs. 200/- p.m.	Rs. 20.50
Above Rs. 200/- p.m.	Rs. 22.50

The above rates were made applicable to the staff employed in the UGC Departmental Canteen with effect from 1.6.1966 as per the decision of the UGC Departmental ^{Canteen} Managing Committee taken at its meeting held on 20.5.1966.

The UGC Departmental Canteen Committee, at its meeting held on 17.7.1967 has requested that the payment of Dearness Relief may be given effect to from 1.1.1966 as originally recommended by the Ministry of Home Affairs and the arrears of Dearness Relief from 1.1.1966 to 1.5.1966 may be paid to the employees of the canteen.

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The above proposal has been accepted and it has been decided to pay the arrears of Dearness Relief to the Canteen staff for the period from 1.1.1966 to 31.5.1966. The extra expenditure involved in this decision will be shared by the Canteen and the Commission in the ratio of 1: 3 as prescribed in the Government Memorandum referred to above.

- (21) Transfer of G.P.Fund Account to the U.G.C. Contributory Provident Fund.

The Chairman has sanctioned the transfer of G.P.Fund Account of Shri Om Parkash, Jr. Stenographer from his previous office to his C.P.Fund Account in the University Grants Commission under Rule 4(3) of the U.G.C.C.P.Fund Rules, 1956. Accordingly, his account amounting to Rs. 30/- has been transferred and credited to his C.P.Fund Account in U.G.C. in the month of November, 1967.

- (22) Assistance to Colleges.

The proposals of the following colleges for development grants have been approved in accordance with the normal rules.

S.No.	Name of the College	Purpose	Approved cost	U.G.C. Share
1.	Kerala Varma College, Trichur (Kerala University).	Construction of Chemistry Laboratory.	67,300	44,860
2.	St. Theresas College, Eluru (Andhra University).	Construction of Laboratory buildings.	2,90,000	1,50,000
3.	St. Alberts College, Ernakulam (Kerala)	Purchase of Science Equipment.	60,000	45,000
4.	Bangur College, Didwana (Rajasthan University)	Construction of Library building.	1,49,500	99,600
5.	Adoni Arts & Science College, Adoni (Sri Venkateswara University).	Purchase of Science equipment and books.	30,000	22,500
6.	Khalsa College for Women Sidhwan-Khurd (Panjab University).	Construction of non-resident students centre.	51,728	35,000
7.	Bhadrak College, Bhadrak (Utkal University)	Construction of staff quarters.	1,21,728	57,600
8.	Farook College, Farook, (Kerala University).	Construction of Women's Hostel.	1,96,000	1,41,000
9.	Arts & Science College, Arvi (Nagpur University)	Construction of Teachers' Hostel.	1,12,090	68,655
10.	M.L.K. Degree College, Balrampur (Gorakhpur University).	Purchase of Science equipment.	27,000	13,500
11.	Katwa College, Katwa. (Burdwan University).	Purchase of Lab. equipment furniture and books.	70,000	51,250

S.No.	Name of the College	Purpose	Approved Cost	U.G.C. Share
12.	Sibsagar College, Joysagar (Dibrugarh University).	Construction of Teachers' Hostel.	91,500	51,673
13.	St. Thomas College, Kozhencherry (Kerala University).	Construction of Lab. building & purchase of furniture.	2,90,000	1,50,000
14.	Wellington College, Sangli (Poona University).	Construction of Teachers' Hostel	65,270	42,050
15.	Sri Bhuvanendra College, Karkala (Mysore University).	Construction of Lab. Building.	1,21,550	81,000
16.	K.L.E. Society's College of Arts & Science, Bangalore.	Construction of Lab. building.	1,80,600	1,20,400
17.	A.S. College, Bikram-Ganj, (Magadh University).	Purchase of books, Lab. equipment & furniture.	45,000	32,500
18.	Hislop College, Nagpur	Purchase of Science equipment.	61,357	46,000
19.	St. Francis de Sales' College, Nagpur.	Purchase of Lab. equipment.	49,076	36,807
20.	Gokhale Centenary College, Ankola (Karnatak University).	Construction of Lab. building.	1,25,085	83,390
<u>CALCUTTA UNIVERSITY</u>				
<u>GRANTS FOR CHALKBOARDS</u>				
21.	Girls' College, Howrah	-do-	1,000	1,000
22.	City College of Commerce, Calcutta	-do-	1,225	1,000
23.	Pakirchand College, Diamond Harbour.	-do-	1,000	1,000
24.	Shibpur Dinabandu Institute, Shibpur.	-do-	1,000	1,000
<u>DIBRUGARH UNIVERSITY</u>				
25.	Debraj Raj College, Golaghat.	-do-	1,100	1,000
26.	North Lakhimpur College, North Lakhimpur.	-do-	1,000	1,000
<u>GAUHATI UNIVERSITY</u>				
27.	Cotton College, Gauhati	-do-	1,200	1,000
28.	Gurucharan College, Silchar	-do-	1,330	1,000
<u>KERALA UNIVERSITY.</u>				
29.	Guruvayurappan College, Kozhikodi.	-do-	990	990
30.	Providence Women's College, Kozhikodi.	-do-	1,060	1,000
<u>LUCKNOW UNIVERSITY</u>				
31.	Kanya Kubja Degree College, Lucknow.	-do-	2,000	1,000
32.	D.A.V. College, Lucknow.	-do-	1,200	1,000

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S.No.	Name of the College	Purpose	Approved Cost.	U.G.C. share
<u>MADURAI UNIVERSITY</u>				
33.	G.N.T. Art's College, Dindigul	Improvement of Chalk-boards.	1,025	1,000
34.	St. John's College, Palayamakottai	-do-	1,012	1,000
35.	Christ College, Marthandam	-do-	1,800	1,000
36.	Sri Pramkalyani College, Alwarkurichi	-do-	1,000	1,000
37.	Alagappa College, Karikudi	-do-	1,000	1,000
38.	A.N. Janki Amal College, Sezakasi	-do-	1,190	1,000
39.	St. Mary's College, Tuticorin.	-do-	1,050	1,000
40.	R.D.M. College, Sivaganga	-do-	1,181	1,000
41.	Laxmipuram College, Nellore	-do-	980	980
42.	S.V.N. College, Madurai	-do-	1,044	1,000
43.	Sarah Tucker College, Palsyamkottai	-do-	1,020	1,000
<u>MEERUT UNIVERSITY</u>				
44.	N.A.S. College, Meerut	-do-	1,020	1,000
<u>MYSORE UNIVERSITY</u>				
45.	St. Aloysius College, Mangalore.	-do-	1,090	1,000
46.	Sri Bhuvanandra College, Karkala.	-do-	1,500	1,000
47.	Sarda Vilas College, Mysore.	-do-	1,160	1,000
<u>NAGPUR UNIVERSITY</u>				
48.	Sitabai Arts College, Akola	-do-	1,200	1,000
49.	St. Francis de Sales College, Nagpur.	-do-	1,100	1,000
50.	L.R.T. College of Commerce, Akola	-do-	1,200	1,000
51.	N.M.D. Mahavidyalaya of Arts & Commerce, Gondia	-do-	1,200	1,000
52.	Jasabhai Muljibhai Patel College, Bhandara	-do-	750	750
<u>NORTH BENGAL UNIVERSITY</u>				
53.	Alipur Duar College, Alipurduar	-do-	780	780
<u>OSMANIA UNIVERSITY</u>				
54.	Vanita Mahavidyalaya, Hyderabad	-do-	1,500	1,000
55.	Evening College of Arts & Commerce, Hyderabad.	-do-	800	800
<u>PANJAB UNIVERSITY</u>				
56.	Arya College, Ludhiana	-do-	2,000	1,000
57.	Vaish College, Rohtak	-do-	1,000	1,000
58.	G.G.N. Khalsa College, Ludhiana	-do-	1,125	1,000
59.	Ahir College, Rewari	-do-	1,200	1,000
60.	Lyalpur Khalsa College, Jullundur	-do-	1,200	1,000
61.	Rajinder Govt. College, Bhatinda	-do-	2,500	1,000
<u>POONA UNIVERSITY</u>				
62.	C.E.S. Arts Science & Commerce College, Chalisgaon.	-do-	2,200	1,000
63.	M.S.G. Arts Science & Commerce, College, Malegaon.	-do-	3,000	1,000
64.	A.E.S. Baramati College Baramati	-do-	1,440	1,000
65.	S.S.V.P.S. Science College, Dhulia	-do-	975	975

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S.No.	Name of the College	Purpose	Approved Cost	U.G.C. Share
<u>RAJASTHAN UNIVERSITY</u>				
66.	Seth G.S.Podar College, Nawalgarh.	Improvement of Chalkboards	1,000	1,000
67.	S.G.N.Khalsa College, Sriganganagar.	--do--	1,200	1,000
68.	Maharaja's College, Jaipur.	--do--	1,000	1,000
<u>RANCHI UNIVERSITY</u>				
69.	St. Columbas College, Hazaribagh.	--do--	963	963
<u>SHIVAJI UNIVERSITY</u>				
70.	R.P.Gogate College, Ratnagiri.	--do--	1,050	1,000
71.	Balwant College, Vita.	--do--	1,200	1,000
72.	Sri Panchim Khemraj Maha- vidyalaya, Sawantwadi.	--do--	1,050	1,000
73.	Chintamanrao College of Commerce, Sangli.	--do--	1,000	1,000
74.	Chhatrapati Shivaji College, Camp-Satara.	--do--	3,150	1,000
75.	Science College, Camp-Satara.	--do--	2,700	1,000

Extension in the tenure of award granted to the awardees under the scheme of 'Utilisation of Services of Retired Teachers'.

S.No.	Name of the awardee and Centre of Work.	Subject	Period of extension	
			from	to
1.	Shri R.C.Advani, Baroda University.	Engineering	16.1.1968	15.1.1969
2.	Prof.K.R.Alur, University of Agricultural Science, Bangalore.	Agriculture	4.1.1968	3.1.1969
3.	Shri T.K.Devassia, St.Xavier's College, Trivandrum.	Malayalam	1.2.1968	31.1.1970
4.	Shri P.V.Rama Iyer, Shree Kerala Varma College, Trichur.	Sanskrit	7.3.1968	6.3.1970
5.	Shri D.C.Bhattacharya, Sanskrit College, Calcutta.	Sanskrit	1.2.1968	31.1.1970
6.	Dr.T.M.Oza, M.N.College, Visnagar.	Chemistry	18.2.1968	17.2.1969
7.	Dr.C.N.Menon, Kashi Vidyapith, Varanasi.	English	14.1.1968	13.1.1969
8.	Dr.S.S.Kulshreshtha, Multinimal Modi College, Modinagar.	Commerce	15.2.1968	14.2.1970
9.	Shri Neelakanta Sastry, Kerala University.	Sanskrit	1.2.1968	31.1.1970
10.	Shri K.L.Ranjanam, Osmania University	Telugu	8.2.1968	7.2.1970
11.	Shri Bodh Raj Sharma, Panjab University.	Political Science	11.2.1968	31.3.1968
12.	Dr.P.R.J.Naidu, Mysore University	Geology	28.2.1968	27.2.1970
13.	Shri M.B.V.Narasinga Rao, Andhra University.	Agriculture	17.1.1968	30.4.1968
14.	Smt.E.A.Gonzalves, St.Xavier's College, Bombay.	Botany	31.1.1968	30.1.1970
15.	Prof.S.K.Roy, Baroda University.	Engineering	1.2.1968	31.1.1970
16.	Shri O.K.Nambiar, Bangalore University.	English	14.2.1968	13.2.1970
17.	Shri N.A.Shastrri, Nagpur University.	Mathematics	2.2.1968	1.2.1970
18.	Dr.R.P.Singh, Rajasthan University.	Philosophy	1.2.1968	31.1.1970

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 7th February, 1968

P L A N

<u>Name of the University</u>	<u>Purpose</u>	<u>Grant released</u>
1.	2.	3.
1. Agra	Grant towards the scheme of Critical Edition of Sur Sagar in K.M. Institute of Hindi Studies and Linguistics approved during III Five year Plan.	2,500
	Purchase of library books and Journals (Humanities).	10,000
	Grant for holding the Seminar in Commerce at Meerut U. C. Meerut.	6,000
	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges at Agra College, Agra.	10,000
	<u>Affiliated Colleges.</u>	
Shri Varshneya College, Aligarh.	Development of Post-graduate studies in Humanities & Social Sciences.	5,000
K.R. Girl's Degree College, Mathura.	Expansion of Science Education.	2,000
C.L. Jain College, Firozabad.	- do -	5,000
Dayanand Arya Kanya Degree College, Moradabad.	- do -	6,466
Moti Ram Babu Ram Degree College, Haldwani.	- do -	24,000
A.K.P. Degree College, Khurja.	Financial assistance to teachers for research work in Humanities and Social Sciences.	250
Vardhaman College, Bijnor.	- do -	250
K.N. Govt. College, Gyanpur.	Extension in Fellowship tenure of Research Fellowships in Science.	764.52
St. John's College, Agra.	- do -	822.58
K.N. Govt. College, Gyanpur.	Contingency grant for Junior Research fellowships in Science.	500
D.S.B. Govt. College, Nainital.	Award of Junior Research Fellowships in Science.	2,074.19
- do -	- do -	2,141.94
Agra College, Agra.	Extension in fellowship tenure of Senior Research Fellowships in Humanities.	741.38
St. John's College, Agra.	Additional grant for Junior Research Fellowships in Humanities 1966-67.	300
Y.D. College, Lakhimpur Kheri.	Grant towards revision of Salary Scales of teachers as per II Plan Scales of pay.	290.48
Hindu College, Moradabad.	Development of Post-graduate deptt. of Physics.	10,000
St. John's College, Agra.	Development of Post-graduate deptt. of Physics.	28,000

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Agra Contd.

Sri Chitragupta Degree College, Mainpuri	Establishment of Text Book Library.	2,000
G.S.H. Degree College, Chandpur-Sian.	- do -	2,000
G.H.Hindu Girl's College, Moradabad.	- do -	1,000
St. John's College, Agra.	- do -	991.99
Govt. Degree College, Gopeshwar.	- do -	2,000
Smt. B.D. Jain Girl's Degree College, Agra Cantt.	- do -	2,000
K.R. Girl's College, Mathura.	- do -	1,500
Swami Sukhdevanand College, Shahjahanpur.	Establishment of Students-Aid-Fund,	1,500
S.M. College, Chandausi.	- do -	1,399
Shri Chitragupta Degree College, Mainpuri.	- do -	681
Multanimal Modji College, Modinagar.	- do -	1,538
Y.D. College, Lakhimpur-Kheri.	- do -	1,500
Ganjdundwara College, Ganjdundwara (Etah).	- do -	1,500
Moti Ram Babu Ram Degree College, Haldwani.	- do -	700
Barahoni College, Aligarh.	- do -	3,000
B.N.V. Degree College, Rath Hamirpur.	- do -	1,500
Amar Singh College, Lakhaoti.	- do -	1,286
Total.		1,43,197.08

2. Aligarh Muslim University.

Grant towards the scheme of research project on "A study of working of Consumer's Co-operative stores in U.P. with special reference to Aligarh Distt."	1,500
Advance Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
- do -	2,161.29
Recurring grant for staff and maintenance under the scheme of increase in intake in the College of Engg.	3,00,000
Grant-in-aid for purchase of equipment due to increase in intake of the College of Engg. and Technology.	50,000
Grant-in-aid for the construction of building for Civil Engg. under double intake scheme.	30,000
Grant-in-aid for the construction of Cycle shed at the University Polytechnic.	10,000
Purchase of equipment for the Jawahar Lal Nehru Medical College.	1,20,000
Grant for development of Agricultural Farm.	56,585.41
Grant for research work in Himalayan Geology.	4,600

p.t.o.

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Aligarh Contd.

Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
Payment of unassigned grant for 1966-67.	2,428.62

Total	5,91,597.90
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3. Allahabad.

Financial assistance to teachers for research work in Humanities and Social Sciences.	750
Award of Senior Research Fellowships in Science.	2,435.48
Award of Junior Research Fellowships in Science.	1,880.64
- do -	1,880.64
Contingency Grant for Junior Research Fellowships in Science.	1,000
Extension in Fellowship tenure of Senior Research fellowships in Humanities.	1,258.06
- do -	1,483.87
Contingency grant for Senior Research Fellowships in Humanities/Science.	1,000
Award of Junior Research Fellowships in Humanities and Social Sciences.	2,132.26
Extension in Fellowship-tenure of Junior Research Fellowships in Humanities.	1,250
Grant-in-aid for the development of Scientific education and research.	12,000

Affiliated Colleges.

Ewing Christian College, Allahabad.	Basic grant for the purchase of Library books.	2,500
G.M.P. Degree College, Allahabad.	- do -	2,500

Total.	32,070.95
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4. Andhra.

Construction of Guest House.	5,000
Grant for organising a Summer Institute in Physics for College teachers.	10,000
- do - Chemistry.	10,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/ Intermediate and Training Colleges.	10,000
- do - Physics.	10,000
Basic grant for purchase of library books and journals for all Science Deptts.	20,000
Basic grant for the purchase of Scientific equipment for the Fourth Five Year Plan period.	75,000
Grant towards expenditure on the Visit of Prof. Samuel Devous F.R.S.	999

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Andhra Contd.

Grant of extension in the Scholarship tenure of Research scholarships in Science/Humanities.	1,497.58
- do -	1,496.23
Utilisation of Services of retired teachers.	1,241.94
Contingency grant for Junior Research Fellowships in Science.	1,624.46
- do -	500
Award of Junior Fellowships to the Students admitted to M.Tech. Course during 1967-68.	20,000
Grant-in-aid for the construction of High Voltage Laboratory building at Engg. College.	5,000
Award of Junior Fellowships to the Post-graduate students admitted to M.E. Course during 1967-68.	79,000

Affiliated Colleges.

Maharaja's College, Vizianagram.	Establishment of Student's-Aid-Fund.	1,500
Narsapur College, Narsapur.	- do -	944
Hindu College, Guntur.	- do -	1,000
P.B.N. College, Nidubrolu.	- do -	569
A.N.R. College, Gudivada.	Extension of Physics Laboratory.	40,000
Maris Stella College, Vijaywada.	Construction of Women's Hostel.	10,000
Total.		3,05,372.21

5. Annamalai.	Grant towards publication of Various editions of Kambaramanayam.	40,000
	Purchase of furniture for the deptts. of Sociology and Psychology.	1,652
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	- do - Mathematics.	10,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Physics.	10,000
	- do - Biology.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	750
	Award of Junior Research Fellowships in Sciences.	1,890.22
	Grant in aid for additional facilities for the Engg. deptt.	50,000
	Grant in aid for the increase in admission capacity of Chemical Engg. Courses.	5,000
	Grant in aid for purchase of equipment for post-graduate courses in Engg.	20,000
	Construction of Hostel building for the Centre of Advanced Study in Marine Biology.	20,000

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Annamalai Contd.

Grant of extension in the Scholarship tenure for Research Scholarships in Science/Humanities.		661.29
	Total	1,89,953.51

6. Banaras Hindu University.

Construction of Separate Library blocks for the Women's College.		15,000
Construction of building for the College of Music and Fine Arts.		5,000
Grant for organising the 55th Session of Indian Science Congress.		2,500
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.		10,000
Grant for organising a Summer Institute in Chemistry for College teachers.		10,000
- do - Biology.		10,000
Award of Junior Research fellowships in Science.		2,141.94
- do -		2,093.55
- do -		2,141.94
- do -		2,122.58
- do - Humanities and Social Sciences.		2,141.94
- do -		2,141.94
Contingency grant for Junior Research fellowships in Humanities.		1,000
Grant in aid for the introduction of 5 year Integrated Course in Engg. and Technology.		44,000
Construction of building for the deptt. of Mining and Metallurgy.		30,000
Construction of N.C.C. Block under the Scheme of Provision for Student's Amenities.		10,000
Grant in aid for the construction of Mini Ventilation Galary under the Scheme of Consolidation and development of the deptt. of Mining and Metallurgy.		50,000
Grant in aid for the introduction of post-graduate course in Coal Mining.		44,000
Grant towards additions and alterations to the building of the Surgical Research Laboratory of the College of Medical Sciences.		5,000
Construction of building for College of Medical Sciences.		4,00,000
Construction of 12 Isolation Rooms in the S.S. Hospital for isolation of cases of Infectious diseases of University employees.		20,000
Construction of 18 class IV Staff quarters for College of Medical Sciences.		10,000
Construction of Multi purpose Hall.		11,492.82
Construction of Class IV Staff quarters.		1,00,000

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Banaras Hindu Contd.

Construction of a building for the establishment of a Centre of Nuclear Medicine.	50,000
Grant towards revision of Scales of pay of teachers of Schools run by the University w.e.f. 1.4.1964.	50,000
Construction of Staff quarters for the College of Medical Sciences.	50,000
Construction of Teacher's Hostel.	20,000
Improvement of Lecturer's quarters.	1,50,000
Award of Research Scholarships in Science/Humanities.	959.68
Total.	11,11,736.39

7. Bangalore.

Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
- do - Chemistry.	10,000
- do - Physics.	10,000
- do - Mathematics.	10,000
Grant for holding a conference of teacher Educators in Mysore State.	2,000
Grant in aid for the award of Junior Fellowship to a Student of M.E. at the College of Engg., Bangalore.	1,900
Cultural Exchange Programme between India and U.S.S.R.	671.85
- do -	803.16

Affiliated Colleges.

Vijaya College, Bangalore.	Construction of Laboratory building.	35,000
Mount Carmel College, Bangalore.	Construction of Library building.	15,000
Maharani's College for Women, Bangalore.	Basic grant for the purchase of library books.	2,500
K.L.E. Society's College of Arts & Science, Bangalore.	- do -	2,500
Central College, Bangalore.	Utilisation of Services of retired teachers.	775.86
Maharani's College for Women, Bangalore.	Financial assistance to teachers for research work in Humanities & Social Sciences.	750
St. John's Medical College, Bangalore.	- do -	750
Total.		1,02,650.87

8. Berhampur.

Unassigned grant for the Fourth Plan Period.	6.500
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Total. 6,500

9. Bihar	Purchase of library books and journals (Humanities).	16,096.40
	<u>Affiliated Colleges.</u>	
C.M. College, Darbhanga.	Construction of Men's Hostel.	75,000
D.S. College, Katihar.	- do -	7,162
Ganga Singh College, Chapra.	Establishment of Text Book Library.	2,000
	<u>Total.</u>	<u>1,00,258.40</u>
10. Bombay.	Purchase of equipment for linguistic deptt.	761.50
	Construction of Consumer's Co-operative store building.	75,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	Recurring grant for staff and maintenance for the post-graduate course in the deptt. of Chemical Technology.	2,50,000
	Grant in aid for the purchase of library books and journals for the courses in Management Studies.	5,000
	Grant towards revision of Salary Scales of teachers as per third Plan Scales of pay.	59,270.76
	Construction of composite building to be used as Hostel/Residential accommodation.	20,000
	Construction of two flats for teachers on the hostel building at Matunga.	30,000
	Basic grant for the purchase of equipment for the deptt. of statistics.	10,000
	Programme of Exchange of Visits by younger Scientists between India and U.K.	83.45
	Cultural Exchange Programme between India and U.S.S.R.	563
	- do -	441.70
	- do -	461.55
	- do -	508.46
	<u>Affiliated Colleges.</u>	
D & H National College & M.A. Science College, Bandra, Bombay.	Establishment of Student's-Aid-Fund.	1,000
Siddharth College of Arts & Science, Bombay.	- do -	3,000
Sydenham College of Commerce & Economics, Bombay.	- do -	2,250
Siddarath College of Law, Bombay.	Basic grant for the purchase of library books.	2,500
Sophia College for Women, Bombay.	- do -	2,500
St. Xavier's Institute of Education, Bombay.	- do -	1,500
Secondary Training College, Bombay.	- do -	1,500

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Bombay Contd.

Ramnarain Ruia College, Bombay.	Basic grant for the purchase of Library books.	2,500
D & H National College, & M.A. Science College, Bandra, Bombay.	- do -	2,500
Sir M.V. College of Science and Seth L.H. College of Arts, Bombay.	- do -	2,500
Carmel College, Nuvem, Goa.	- do -	1,500
Ismail Yusuf College, Bombay.	- do -	2,500
Elphinstone College, Bombay.	- do -	2,500
Sadhna School of Edu- cational Research & Training, Bombay.	- do -	1,500
Shri Chinai College of Commerce and Economics Bombay.	- do -	2,500
Jai Hind College, Bombay.	- do -	2,500
St. Xavier's College, Bombay.	- do -	2,500
Ruparel College, Bombay.	- do -	2,500
Sophia College for Women, Bombay.	Construction of Laboratory building and purchase of Furniture and equip- ment.	24,000
St. Xavier's College, Bombay.	Development of Micro film section of the college library.	1,000
Sydenham College, Bombay.	Extension in Fellowship tenure of Junior Research Fellowships in Humanities.	1,006.45
St. Xavier's College, Bombay.	Development of Post-graduate deptts. of Physics, Chemistry, Botany, Microbiology and Geology.	25,000
Total.		<u>5,52,846.87</u>

11. Burdwan.	Construction of Teacher's Hostel	65,000
	Payment of unassigned grant for 1967-68.	9,000

Affiliated Colleges.

Hooghly Women's Coll- ege, Hooghly.	Establishment of Text Book Library.	5,000
Gushkara Mahavidyala- ya, Gushkara.	- do -	5,000
Trivenidevi Bhalotia College, P.O. Raniganj.	Establishment of Students-Aid-Fund.	2,500
Hooghly Mohsin College, Chinsurah.	- do -	2,149
Katwa College, P.O. Katwa.	- do -	3,000
Suri Vidya Sagar College, Suri.	- do -	3,000
Bidhan Chandra College, P.O. Rishra (Hooghly).	- do -	1,046

p.t.o.

Burdwan Contd.

Ramananda College, Bishnupur.	Construction of Library building.	5,000
Trivanidevi Bhalotia College, P.O. Raniganj.	Construction of Non-Resident Student's Centre.	7,000
Kalna College, Kalna.	Basic grant for purchase of Library books.	2,500
Aghore Kamini Prakash Chandra Mahavidyalaya P.O. Bengal (Hooghly).	- do -	2,500
Rampurhat College, P.O. Rampurhat.	- do -	2,500
Hooghly Mohsin College, P.O. Ghinsurah.	- do -	2,500
Syam Sundar College, Syam Sundar.	- do -	2,500
Burdwan Raj College, Burdwan.	Financial assistance to teachers for research work in Humanities & Social Science.	500
Total.		1,20,695

12. Calcutta.	Grant for the award of prize in the National Essay competition in connection with the celebration of International Co-opera- tion year.	1,000
	Purchase of equipment under the Research Scheme on Liquid-Liquid Extraction Heat Transfer and catalysis at the deptt. of Applied Chemistry.	2,100
	Contingency grant for Senior Research fellowships in Humanities.	500
	Extension in Fellowship tenure of Junior Research Fellowships in Science.	725.81
	- do -	1,387.10
	Utilisation of Services of retired teachers.	6,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	1,000
	Grant of extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,504.62

Affiliated Colleges.

Ananda Mohan College, Calcutta,	Financial assistance to teachers for Research work in Humanities and Social Sciences.	1,000
Victoria Institution, Calcutta.	- do -	500
Midnapore College, Midnapore.	- do -	500
Dakshin Barasat College, P.O. Dakshin Barasat.	Purchase of Library Books.	2,000
Sanskrit College, Calcutta.	Extension of Sanskrit Research Block for providing accommodation for day scholars.	70,000

Delhi Contd.

Construction of Staff quarters for Miranda House.	50,000
Levelling of site for construction of Guest House-cum-Club building.	1,321.59
Grant for establishment of Text Book Libraries in constituent colleges.	30,000
Establishment of Student's-Aid-Fund.	2,415
Grant of extension in the Scholarship tenure of Research Scholarships in Humanities.	879.03
Payment of unassigned grant for 1967-68	15,000
Construction of building for housing liquid helium plant and liquid nitrogen plant.	30,000
Construction of additional accommodation for the deptt. of Physics for the increased admission to Honours Courses.	50,000
Programme of exchange of Visits by younger Scientists between India and U.K.	5,467

Constituent Colleges.

Indraprastha College for Women, Delhi.	Establishment of Student's Aid-Fund.	2,535
Ram Lal Anand College, New Delhi.	- do -	500
Women's College, Timarpur, Delhi.	- do -	1,500
Hindu College, Delhi.	- do -	1,500
Hastinapur College, New Delhi.	Financial assistance to teachers for research work in Science.	250
Kirori Mal College, Delhi.	Improvement of College play ground.	10,000
Mata Sundri College for Women, New Delhi.	Establishment of Text Book Library.	5,000
Women's College, Timarpur Delhi.	- do -	5,000
R.L. Anand College, New Delhi.	- do -	5,000
Hastinapur College (Day) New Delhi.	- do -	5,000
- do - (Evening) New Delhi.	- do -	5,000
Rajdhani College, Kirtinagar, New Delhi.	- do -	5,000
Modern College for Women, New Delhi.	- do -	5,000
Total.		2,75,454.62

14. Dibrugarh.	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
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Total. 10,000

p.t.o.

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15. Gauhati.	Grant for organising a Summer Institute in Physics for College teachers.	10,000
	Award of Scholarships for Post-graduate studies in Science and Humanities including Social Sciences by the Students of Hill Areas of North East India.	1,280
	- do -	1,280
	- do -	854.84
	- do -	1,280.
	- do -	1,280
	- do -	1,280
	- do -	1,280
	- do -	1,280
	- do -	1,206.45
	- do -	1,280
	- do -	1,280
	- do -	1,280

Affiliated Colleges.

Pandu College, Pandu.	Establishment of Text Book Library.	5,000
D.M. College, Imphal.	Establishment of Student's Aid-Fund.	1,000
Karimganj College, P.O. Karimganj.	- do -	2,500
Sankardev College, Shillong.	- do -	1,312
Tinsukia College, Tinsukia.	- do -	497
St. Edmands College, Shillong.	- do -	1,799
Haflong College, Haflong	Improvement of Library facilities.	2,000
Abhayapuri College, Abhayapuri.	Construction of Men's Hostel.	20,000
Darrang College, Tezpur.	Construction Women's Hostel.	3,400
	Total	62,369.29

16. Gorakhpur.	Construction of Arts Block Building.	5,000
	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for College teachers,	10,000
	Construction of Teacher's Hostel.	50,000
	Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
	Payment of unassigned grant for 1967-68	6,000

Affiliated Colleges.

Degree College, Ghazipur.	Grant towards revision of Salary Scales of teachers as per II Plan Scales of pay.	490
Udit Narain Degree College, Padrauna.	Expansion of Science education.	5,000
Tilak Dhari Degree College, Jaunpur.	Construction Physics and Biology Block.	35,000

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Gorakhpur Contd.

Shivapuri Degree College, Shohratgarh.	Basic grant for purchase of Library books.	1,500
Udai Pratap College, Varanasi.	- do -	2,500
S.C. College, Ballia.	- do -	2,500
Degree College, Pratapgarh.	- do -	2,500
Shibli National College, Azamgarh.	- do -	2,500
St. Andrews College, Gorakhpur.	Grant towards revision of Salary Scales of teachers, as per Second Plan Scales of pay.	543.54
K.B. Degree College, Mirzapur.	Construction of Library building and purchase of furniture.	20,000
National Degree College, Barahalganj.	Establishment of Text Book Library.	5,000
R.S.K.D. Degree College, Jaunpur.	- do -	2,000
Udit Narain Degree College, Padrauna.	- do -	2,000
- do -	Establishment of Student's-Aid-Fund.	724
G.S. Degree College, Samodhpur, Jaunpur.	- do -	1,000
D.A.V. Degree College, Azamgarh.	- do -	1,500
Budha Vidyapeeth Degree, College, Nowgarh, Basti.	- do -	818

Total	1,68,736.83
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17. Gujarat.

Grant towards the Scheme of additional teaching staff for Humanities and Social Sciences depts.	20,000
Grant towards holding a Work-shop for Chemistry courses.	2,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Physics.	10,000
- do - Biology.	10,000
Grant for organising a Summer Institute in Biology for College teachers.	10,000
Cultural Exchange Programme between India and U.S.S.R.	668.95

Affiliated Colleges.

D.K.V. Arts and Science College, Jamnagar.	Purchase of Water-Cooler	92.32
Sir Lallubhai Shah Arts/Law College, Ahmedabad.	Establishment of Text Book Library	6,500
Patel J.B. Rudewala Arts College and Patel A.M. Rudewala Commerce College, Borsad.	- do -	1,500
City Arts College, Ahmedabad.	Establishment of Student's-Aid-Fund.	1,000

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Gujarat Contd.

K.F. Madhvani Arts and Commerce College, Porbandar.	Establishment of Student's-Aid-Fund.	750
City Commerce College, Ahmedabad.	- do -	1,750
Gujarat College, Ahmedabad.	- do -	1,000
Kamini Science College and Prataprai Arts College, Amreli.	- do -	1,750
H.L. College of Commerce, Ahmedabad.	- do -	3,000
Arts and Science College, Bhadran.	- do -	1,500
Patel J.B. Rudewala Arts College and Patel A.M. Rudewala Commerce College, Borsad.	- do -	579
Sheth H.J. Law College, Bhavnagar.	- do -	1,074
Shri N.K.M. Science College, Bulsar.	- do -	2,009
Gujarat College, Ahmedabad.	Award of Research Training Scholarships.	9,910.92
Navgujarat Commerce and Law College, Ahmednagar.	Improvement of Chalk boards.	1,000
- do -	- do -	1,000
Ahmedabad Science College, Ahmedabad.	- do -	1,000
Ahmedabad Arts and Commerce College, Ahmedabad.	- do -	1,000
M.N. College, Visnagar.	Utilisation of Services of retired teachers.	706.90
S.V. Patel College of Arts and Science, Bilimora.	Financial assistance to teachers for research work in Humanities and Social Sciences.	250
Shah N.H. Commerce College and Shri N.K.M. Arts College, Bulsar.	Development of Post-graduate studies in the Humanities and Social Sciences.	5,000
Total.		1,05,041.09

18. Indore.

Affiliated Colleges.

Devi Ahilya Girl's Degree College, Indore.	Establishment of Text Book Library.	2,000
Total.		2,000

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19. Jabalpur. Grant for organising a Summer Institute in Mathematics for College teachers. 10,000

Affiliated Colleges.

College of Educational Psychology & Guidance, Jabalpur.	Basic grant for the purchase of Library books.	1,500
Govt. Science College, Jabalpur.	- do -	2,500
Kesarwani Mahavidyalaya, Jabalpur.	- do -	2,500
N.E.S. Arts College, Jabalpur.	- do -	1,500
C.P. Mahila Mahavidyalaya, Jabalpur.	- do -	1,500
G.S. College of Commerce or Economics, Jabalpur.	- do -	2,500
Mahakoshal Arts Mahavidyalaya, Jabalpur.	- do -	2,500
Shri Tilak Rashtriya Mahavidyalaya, Katni.	- do -	1,500
St. Aloysius College, Jabalpur.	- do -	2,500
M.H. College of Home Science for women, Jabalpur.	- do -	2,500

Total. 31,000

20. Jdavpur. Grant towards the scheme of institution of Bachelor of Literary Science Course. 6,000

Grant towards the salaries of the staff for the scheme of the Introduction of Applied Economics and Demography in the postgraduate course in Economics. 6,000

Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges. 10,000

Grant for organising a Summer Institute in Chemistry for College teachers. 10,000

- do - Mathematics. 10,000

- do - Physics. 10,000

Grant-in-aid for construction of building for Degree Course in Metallurgy. 50,000

Grant-in-aid for 3 year Degree Course in Food Technology and Bio-chemical Engg. 8,000

Grant-in-aid for post-graduate course in Mechanical Engg. 60,000

Payment of recurring grant for Post-graduate course in Food Technology. 10,000

Grant-in-aid for modernisation of Chemical Engg. degree course. 1,656.20

Payment of recurring grant for 3 year under-graduate degree course in Food Technology and Bio-Chemical Engg. 30,000

Grant-in-aid for 3 year Degree Course in Instrumentation and Automatic Control, Engg. 50,000

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Jadavpur Contd.

Construction of building for the Post-graduate course in Chemical Engg.	50,000
Payment of recurring grant for Post-graduate courses in Engg.	3,00,000
Grant-in-aid for 4-year degree course in Pharmacy.	25,000
Extension in Fellowship tenure of Senior Research Fellowships in Science.	1,403.23
- do - Engg. & Technology.	1,786.67
Grant for the working of the Gandhi Bhavan.	5,000
Award of Scholarships for Post-graduate studies in Science & Humanities including Social Sciences by the Students of Hill Areas of North East India.	1,078.71
Construction of building for the Science deptts.	50,000
Total.	6,95,924.81

21. Jammu & Kashmir.	Construction of 12 Reader's quarters at Srinagar.	40,000
	Construction of Chemistry deptt. building at Srinagar.	80,000

Affiliated Colleges.

S.P.M. Rajput College of Commerce, Jammu.	Establishment of Hobby Work-shop Scheme	1,000
Total.		1,21,000

22. Jiwaji.

Affiliated Colleges.

Vijay Raje Sciendia Mahavidyalaya, Bhandar.	Establishment of Student's-Aid-Fund.	967
Jain Degree College, Bhind.	- do -	1,588
Total.		2,555

23. Jodhpur.	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
	Construction of Staff quarters for Readers & Lecturers.	50,000
	Construction of single seated Hostel for men students.	40,000
	Construction of Triple seated Hostel for men students.	50,000

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Jodhpur Contd.

Construction of Science Block No. I for the deptts. of Physics & Mathematics.	60,000
Payment of recurring grant towards the salary of additional staff appointed in various Science deptts.	70,000

Total.	2,80,000
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24. Kanpur.

Unassigned grant for the year 1967-68.	6,500
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Affiliated Colleges.

R.M.P. Degree College, Sitapur.	Establishment of Student's-Aid-Fund.	632
Bhagwan Din Arya Kanya Patashala College, Lakhimpur Khori.	- do -	565
S.N. Sen B.V. Degree College, Kanpur.	- do -	1,000
Govt. Agricultural College, Kanpur.	Purchase of books and journals in Community Development, Co-operation and Panchayati Raj.	3,000
Y.D. College, Lakhimpur Khori.	Construction of Teachers Hostel.	10,000
Janta Degree College, Ajiamal	Construction of Laboratory Building.	25,000

Total.	46,697
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25. Karnatak.

Purchase of library books and journals (Humanities)	15,000
Grant towards the scheme of research "A Profile of rural youth"	5,000
Award of prizes in National Essay competition in connection with celebration of International Co-operation year.	1,000
- do -	1,000
Award of Junior Research Fellowships in Science.	2,141.94
- do -	2,074.19
Grant towards revision of salary scales of teachers of S.B. College of Commerce, Gulbarga.	757.35
Payment of unassigned grant for 1967-68.	9,000

Total	35,973.48
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26. Kerala.

Advance grant for organising a Summer Institute in Endocrinology (All India) for college teachers.	10,000
- do - Mathematics.	10,000
- do - Physics.	10,000
Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000

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Kerala Contd. Utilisation of Services of retired teachers. 1,000

Affiliated Colleges.

Christ College, Irinjalakuda.	Improvement of Chalk boards.	1,000
Assumption College, Changanacherry.	- do -	1,000
Union Christian Coll- ege, Alwaye.	Establishment of Hobby Work-shop.	3,392
St. Albert's College, Ernakulam.	Improvement of Chalk boards.	1,000
Farook College, Feroke.	Establishment of Hobby Work-shop.	917
- do -	Improvement of Chalk boards.	1,000
N.S.S. College for Women, Trivandrum.	Basic grant for purchase of library books.	2,500
Govt. Training College, Trivandrum.	- do -	1,500
St. Joseph's Training College, Mannanam.	- do -	1,500
Titus II Teacher's College, Tiruvalla.	- do -	1,500
Sree KeralaVarma College, Trichur.	- do -	2,500
Post Memorial Train- ing College, Mavelikkara.	- do -	1,500
Union Christian College, Alwaye.	- do -	2,500
Govt. College, Madapally.	- do -	2,500
Mar Theophilus Training College, Trivandrum.	- do -	1,500
N.S.S. Training College, Pandalam.	- do -	1,500
Mount Tabor Training College, Pathanapuram.	- do -	1,500
Karmala Rani Training College, Quilon.	- do -	1,500
St. Thomas Training College, Palai.	- do -	1,500
St. Joseph's Training College for Women, Ernakulam.	Establishment of Student's-Aid-Fund.	600
Sree Narayana College, for Women, Quilon.	- do -	3,000

Total. 76,409

27. Kurukshetra.	Construction of Second Women's Hostel.	50,000
	Grant of extension in the scholarship tenure of Research scholarships in Science/Humanities.	750
	- do -	782.26
	Purchase of Science equipment for the deptt. of Chemistry.	30,000
	Award of Research Training Scholarships.	935.48

Total. 82,467.74

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28. Lucknow.	Purchase of books and journals in community Development, Co-operation and Panchayati Raj.	2,000
	Grant for the conduct of Seminar on English as a part of follow up Programme.	3,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
	Contingency grant for Junior Research Fellowships in Humanities.	500
	Extension in fellowship tenure of Junior Research Fellowships in Humanities.	600
	Extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,103.17
	Award of Research Training Scholarships.	4,925.01

Affiliated Colleges.

Kanya Kuber Vocational Degree College, Lucknow.	Grant towards revision of Salary Scales of teachers as per II Plan scales of pay.	455.72
Lucknow Christian College, Lucknow.	Basic grant for purchase of Library books.	2,500
Loreto College, Lucknow.	- do -	1,500
Isabella Thoburn College, Lucknow.	- do -	2,500
D.A.V. Degree College, Lucknow.	- do -	2,500
Lucknow Christian College, Lucknow.	Expansion of Science education.	25,000

Total. 66,583.90

29. Madras.	Grant for the conduct of Summer Institute in English and Seminar on English as a part of follow-up programme.	8,500
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Biology.	10,000
	Grant-in-aid for the award of Junior Fellowships to the Student's admitted during 1967-68.	24,000
	Grant for staff and maintenance for the school of Architecture during 1967-68.	3,600
	Basic grant for the purchase of library books and journals for the development of Engg. and Technological education.	20,000
	Recurring grant for Ramanujan Institute for Advanced study in Mathematics for the year 1967-68.	50,000

Affiliated Colleges.

Setupati Govt. Arts College, Ramanathapuram,	Establishment of Text Book Library.	2,000
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Madras Contd.

Vivekananda College, Madras.	Establishment of Student's-Aid-Fund,	3,000
P.S.G. Arts College, Coimbatore.	- do -	3,000
Voorbees College, Vellor.	- do -	2,500
Viveka Nanda College, Mylapore.	Development of Postgraduate studies in Humanities.	5,000
Nirmala College, Coimbatore.	Purchase of Science equipment and Lib- rary books.	6,000
Madras Christian Colle- ge, Tambaram, Madras.	Contingent grant for utilisation of servi- ces of retired teachers.	1,000
P.S.G. College of Tech- nology Peelamedu, Coimbatore.	Financial assistance to teachers for res- earch work in Humanities and Social Sciences.	750
Presidency College, Madras	Award of Junior Research fellowships in Science.	1,900
Agriculture College and Research Insti- tute, Coimbatore.	- do -	2,141.94
St. Joseph's College, Tiruchirapalli.	Development of Post-graduate deptt. of Botany.	12,000
Seethalakshmi Rama- Swami College, Tiru- churapalli.	- do - Chemistry.	5,000
	Total.	1,70,391.94

30. Madurai.	Award of prizes in National Essay Competition in connection with celebra- tion of International Co-operation year.	500
	Grant for organising a Summer Institute in Mathematics for College Teachers.	10,000
	Extension in Fellowship tenure of Junior Research Fellowships in Science.	861.29
	Establishment of students-aid-fund.	1,711

Affiliated Colleges.

Aleppappa College, Karaikudi.	Establishment of Student's-Aid-Fund.	3,000
R.D.M. College, Sivaganga.	- do -	2,250
Sri Palaniyadavar Arts College, Palani.	Establishment of Text Book Library.	4,000
Ayya Nadar Janaki Ammal College, Sivakasi.	- do -	5,000
Sarah Tucker College, Palayamkottai.	Establishment of Student's-Aid-Fund.	2,250
Arurugan Pillai Seethai Ammal College, Tirupattur.	- do -	1,359
	Total.	30,931.29

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31. Magadh.	Construction of Teacher's Hostel.	35,000
	<u>Affiliated Colleges.</u>	
Sri Guru Govind Singh College, Patna City.	Establishment of Text Book Library.	2,000
D.K. College, Dumri.	Basic Grant for the Purchase of library books.	1,500
M.N. Mahila Mahavidyalaya, Arrah.	- do -	1,500
Swami Sahajanand College, Jahanabad.	- do -	2,500
A.S. College, Bikramganj.	- do -	2,500
Baldeo Narain College, Rajgir.	- do -	1,500
S.M.D. College, Poonpoo.	- do -	1,500
	Total.	<u>48,000</u>
32. M.S. University of Baroda.	Grant for organising a Summer Institute in Physics for College teachers.	10,000
	- do - Mathematics.	10,000
	Construction of Staff quarters.	11,611
	Utilisation of Services of retired teachers.	1,000
	Grant towards revision of salary scales of University teachers in Engg. and Technological Institutions/Deptts.	2,00,000
	Basic grant for the purchase of Scientific equipment.	1,00,000
	Payment of unassigned grant for 1967-68	13,500
	Cultural Exchange Programme between India and U.S.S.R.	171.24
	Grant for Students Counselling Centre during 1966-67.	30,195.79
	Total.	<u>3,76,478.03</u>
33. Marathwada.	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Mathematics.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	750
	- do -	750
	- do -	1,000
	<u>Affiliated Colleges.</u>	
Yeshwant Mahavidyalaya, Nanded.	Construction of Men's Hostel.	7,000
Maharashtra Udayagiri Mahavidyalaya, Udgir.	Improvement of Chalk boards.	1,000

p.t.o.

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Marathwada Contd.

Maulana Azad College of Arts, Science & Commerce, Aurangabad. Construction of Library and Laboratory buildings. 15,000

Total. 45,500

34. Meerut. Grant for organising a Summer Institute in Mathematics for College teachers. 10,000
Unassigned grant for the Fourth Plan period. 812.50

Affiliated Colleges.

Kisan Degree College, Simbhaoli. Establishment of Text Book Library. 2,000
S.S.V. College, Hapur. Development of Post-graduate studies in Humanities and Social Sciences. 4,463
M.M.H. College, Ghaziabad. - do - 5,000
S.D. College, Muzaffar nagar. Special grant for the purchase of Library books for the Post-graduate deptt. of Commerce. 750
J.V. Jain College, Saharanpur. - do - 750
S.S.V. College, Hapur. - do - 750
N.R.E.C. College, Khurja. - do - 750
Meerut College, Meerut. - do - 750
Multaniamal Modi College, Modinagar. - do - 750
D.A.V. (Post-graduate) College, Dehradun. - do - 750
Meerut College, Meerut. Financial assistance to teachers for research work in Humanities and Social Sciences. 150
Multaniamal Modi College, Modinagar. Utilisation of Services of retired teachers. 788.62
- do - Special grant for the purchase of Library books for the Post-graduate deptt. of Physics. 500
S.D. College, Muzaffar nagar. - do - 500
D.A.V. College, Dehradun. - do - Mathematics. 500
D.A.V. College, Muzaffarnagar. Development of Post-graduate deptts. of Physics, Zoology, Chemistry and Mathematics. 20,000
Janta Vedic College, Baraut. Special grant for the purchase of Library books for the Post-graduate deptt. of Physics. 500

Total. 50,434.12

35. Mysore. Purchase of departmental books (Humanities) 30,000
Purchase of furniture and fittings for the New Arts Block Building. 35,000

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Mysore Contd.

Construction of Open Air Theatre at Manasa-gangotri.	2,00,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Physics.	10,000
Grant for organising a Summer Institute in Chemistry for College Teachers.	10,000
- do - Biology.	10,000
- do - Physics.	10,000
Construction of Professors, Readers and Lecturers quarters.	1,25,000
Financial assistance to teachers for research work in Humanities and Social Sciences.	1,250
Utilisation of Services of retired teachers.	534,48
Contingency grant for Junior Research fellowships in Science.	1,000
- do - Senior Research Fellowships in Humanities.	500
Purchase of Scientific equipment for various Science deptts.	45,000
Grant towards the salary of additional staff appointed in the Chemistry deptt.	30,600

Affiliated Colleges.

Sri Siddeganga College of Science, Tumkur.	Establishment of Student's-Aid-Fund.	1,006.
Sri Bhuvanandra College, Karkala.	Purchase of library and Laboratory fittings and furniture.	12,000
- do -	Purchase of library books and laboratory equipments.	20,000
Kalpataru College, Hiptur.	Financial assistance to teachers for research work in Humanities and Social Sciences.	500
M.E.S. College of Arts & Commerce, Bangalore.	- do -	375
Total.		5,52,765.48

36. Nagpur.	Establishment of Students Health Centre.	5,000
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Chemistry for college teachers.	10,000
	- do - Physics.	10,000
	Construction of Teacher's Hostel.	9,000
	Award of Junior Fellowships to the Students admitted to the P.G. Courses in Chemical Engg. and Chemical Technology at the Laxminarayan Institute of Technology during 1966-67.	20,000
	- do - 1967-68.	20,000

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Nagpur Contd.

Basic grant for the purchase of library books and journals for the development of Engg. and Technological Education.	35,000
Grant-in-aid for the award of Junior Fellowships to the Students admitted to the P.G. Courses in Chemical Engg. and Technology.	3,000
Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
Utilisation of Services of Retired teachers.	965.52

Affiliated Colleges.

Hislop College, Nagpur.	Extension in Fellowship tenure of Senior Research Fellowships in Humanities.	1,000
Shri M. Mohota College, of Science, Nagpur.	Purchase of library books and equipment.	34,875
St. Francis De Sale's College, Nagpur.	Establishment of Student's-Aid-Fund.	2,500
Nevaji bai Mitkarini College, Bramhapuri.	- do -	1,468
Smt. Binzani Mahila Mahavidyalaya, Nagpur.	Establishment of Text Book Library.	5,000
Janta Mahavidyalaya, Chandrapur.	- do -	1,000
Nabira Mahavidyalaya Katol.	- do -	4,000
Total.		1,74,969.81

37. North Bengal.

Affiliated Colleges.

Maldev College, Malda.	Establishment of Student's-Aid-Fund.	3,000
Dinhata College, Dinhata.	Basic grant for the purchase of Library books.	2,500
Total.		5,500

38. Osmania.

Award of prizes in the National Essay Competition in connection with the celebration of International Co-operation year.	750
Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Chemistry.	10,000
- do - Biology.	10,000
Grant for organising a Summer Institute in Biology for College teachers.	10,000
- do - Chemistry.	10,000
- do - Genetics.	10,000
Construction of additional Staff quarters.	20,000

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Osmania Contd.

Award of Junior Fellowships to the Students of M.E. Course.	10,000
Recurring grant for introduction of Three Year Degree Course in Engg. for graduates in Science, at the College of Engg.	50,000
Grant-in-aid for the construction of 1st floor over the Chemical Technology building for post-graduate course in Chemical Engg.	30,000
Grant-in-aid for the construction of building of the P.G. Course in Civil Engg.	25,000
Payment of recurring grant for staff and maintenance towards increase in admission capacity in the deptt. of Chemical Technology.	45,000
Payment of recurring grant for staff and maintenance towards conversion of 4-year degree course of Tele-Comm: Engg. into 5-year Integrated course at the College of Engg.	60,000
Award of Junior Research Fellowships in Science.	2,141.93
Utilisation of Services of retired teachers.	879.31
Grant towards revision of Salary scales of teachers of Vanita Mahavidyalaya, Hyderabad.	12,155.67
Construction of hostel of the Chemical Technology.	50,000
Financial assistance for the establishment of Student's Home.	5,000
Payment of unassigned grant for 1967-68.	13,500
Construction of Dome for observatory at Rangapur.	1,50,000
Institution of a Post-graduate diploma course in geographical Cartography.	11,500
<u>Affiliated Colleges.</u>	
Vivek Vardhini College, Hyderabad.	Purchase of laboratory equipment and Library books. 38,000
Anwarul-Uloom College, Hyderabad.	Construction of laboratory building and Museum. 6,373
Sri Ramachandra Arts and Science College, Kothagudium.	Purchase of books and Science equipments. 15,000
Vanita Mahavidyalaya, Hyderabad.	Establishment of Text Book Library. 5,000
Arts & Science College, Jadcharla.	- do - 5,000
Sri Venkateswara Arts & Science College, Paleh.	Purchase of Scientific equipment & furniture. 8,000
Total.	<u>6,23,299.91</u>

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39. Panjab.	Grant towards the scheme of "A Study of IV general Election in India".	1,000
	Grant towards the scheme of "Research in Social Welfare entitled.	6,000
	"an enquiry into the determinants of anxiety in School Children".	
	Grant towards the Scheme of Devnagari transcription of South Indian Script MSS.	20,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	- do - Mathematics.	10,000
	- do - Chemistry.	10,000
	Award of Junior Fellowships in Engg. & Technology to Post-graduate Students admitted in Chemical Engg. in 1967-68.	21,000
	Grant-in-aid for introduction of Post-graduate Course in Chemical Engg.	25,000
	- do - Pharmacy.	14,000
	Grant-in-aid for the increase in intake in the degree course of Chemical Engg. deptt.	10,000
	Award of Junior Research fellowships in Humanities and Social Sciences.	2,132.26
	- do - Science.	2,141.94
	Extension in fellowship tenure of Senior Research fellowships in Engg. and Technology.	980.65
	Award of Senior Research fellowships in Science.	3,600
	Utilisation of Services of retired teachers.	4,677.42
	- do -	827.59
	Financial assistance to teachers for research work in Humanities and Social Sciences and Sciences.	500
	Award of Research Training Scholarships.	2,000
	Grant for working of the Gandhi Bhavan.	5,000
	Purchase of Scientific equipment in the deptt. of Chemistry.	25,000
	- do - Geography.	5,000
	<u>Affiliated Colleges.</u>	
D.A.V. College, Jullundur.	Development of Post-graduate studies in the Humanities and Social Sciences.	5,000
Govt. College, Dharamsalla.	Financial assistance to teachers for research work in Humanities and Social Sciences.	375
Khalsa College for Women, Sidhwan Khurd.	Construction of Women's Hostel.	10,957
Kishan Lal Public College, Rewari.	Establishment of Student's-Aid-Fund.	1,750.
D.M. College of Education, Moga.	- do -	1,112
A.S. College, Khanna.	- do -	2,250
Panjab University Evening College, Jullundur.	- do -	1,750
Nehru College, Ajrenda.	- do -	725
Arya Girl's Degree College, Ambala Cantt.	- do -	500
Govt. College for Women, Amritsar.	- do -	2,185
Arya Girl's College, Ambala Cantt.	Establishment of Text Book Library.	2,000
	Total.	2,17,463.86

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40.	Panjab Agricultural Cultural.	Award of Junior Research Fellowships in Science.	2,141.94
		<u>Affiliated Colleges.</u>	
	College of Veterinary Medicine, Hissar.	Contingency grant for Junior Research fellowships in Science.	1,000
		Total.	<u>3,141.94</u>
41.	Patna.	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
		Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
		Contingency grant for Junior Research fellowships in Humanities.	1,000
		Grant-in-aid for increase in admission capacity at Bihar College of Engg.	60,000
		Grant-in-aid for introduction of Post-graduate Diploma Courses and Research Units in Civil Engg.	10,000
		Total.	<u>83,161.29</u>
42.	Poona.	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
		Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
		- do - Mathematics.	10,000
		- do - Biology.	10,000
		Construction of Second phase of the building for the Centre of Advanced Study in Sanskrit.	30,000
		Construction of the building for the Centre of Advanced Study in Linguistics.	72,097.15
		<u>Affiliated Colleges.</u>	
	College of Education, Ahmednagar.	Basic grant for the purchase of Library books.	1,500
	Arts & Commerce College, Nandurbar.	- do -	1,500
	M.E.S. College of Commerce, Poona.	- do -	2,500
	S.P.D.M. Arts & S.B.B. & S.H.D. Commerce College, Shirpur.	- do -	1,500
	Partap College, Amalner.	- do -	2,500
	H.P.T. College, Nasik.	- do -	2,500

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Poona Contd.

S.V.P.S. Arts & M.F. Basic grant for the purchase of Library M.A.Commerce College, books.		2,500
Dhula.		
B.M. College of Commerce, Poona.	- do -	2,500.
Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar.	- do -	2,500
Baramati College, Baramati.	- do -	2,500
Dr. B.A.College of Arts, Science & Commerce, Mahad.	Establishment of Student's-Aid-Fund.	1,500
Ferguson College, Poona.	- do -	3,000
S.N. Arts Commerce & B.N.S.Science College, Sangamner.	- do -	1,481
Pratap College, Amalner.	Development of Post-graduate studies in Humanities and Social Sciences.	5,000
Arts, Science and Commerce College, Chalisgaon.	Construction of Men's Hostel.	8,000
Dr.B.A. College of Arts, Science, Commerce, Mahad.	Basic grant for purchase of library books.	1,500
J.S.M.College, Alibag.	- do -	2,500
B.Y.K. College of Commerce, Poona.	- do -	2,500
	Total.	<u>1,89,578.15</u>

43. Rajasthan.	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges at Ajmer.	10,000
	do - at Jaipur.	10,000
	do - Mathematics.	10,000
	Grant for holding a Seminar in Election studies Methodology.	15,000
	Grant for organising a Summer Institute in Chemistry for College teachers at Jaipur.	10,000
	do - Mathematics (All India)	10,000
	do - Biology.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	150
	Grant for working of the Gandhi Bhavan. Cultural Exchange Programme between India and G.D.R. for 1967-68.	5,000 235.38

Affiliated Colleges.

R.L. Saharia College, Kaladara.	Establishment of Student's Aid-Fund.	750
G.V. Golden Jubilee N.S.Mahavidyalaya, Sangaria.	- do -	500

Rajasthan Contd.

Bharat Sevak Samaj, College, Jaipur.	Establishment of Text Book library.	5,000
Govt. College, Tonk.	- do -	2,000
Nehru Memorial Colle, Hanunangarh Town.	- do -	2,000
B.S.S. Evening College, Sriganganagar.	- do -	2,000
Basic Teacher's Training College, Sardar Shahar.	Purchase of Water Cooler.	525
Bhagwandas Todi College, Laxmangarh.	Establishment of Student's-Aid-Fund.	1,500
G.D. Govt. College for Women, Alwar.	- do -	694
Govt. College, Kotputli.	Financial assistance to teachers for research work in Humanities, Social Sciences and Sciences.	208.88
Govt. College, Ajmer.	- do -	500
Bansthali Vidya-pith, Banasthali.	Contingency grant for Senior Research fellowships in Humanities.	1,000
Savitri Girl's College, Ajmer.	Construction of Laboratory building.	10,980
Govt. College, Ajmer.	Award of Research Training Scholarships.	1,658.33
	Total.	1,09,701.59

44. Ranchi.	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate & Training Colleges.	10,000
	Financial assistance to teachers for Research work in Humanities and Social Sciences.	500
	Total.	10,500

45. Ravi Shankar.

Affiliated Colléges.

Govt. College of Engg. and Technology, Raipur.	Financial assistance to teachers for Research work in Humanities and Social Sciences and Sciences.	1,250
J.N.M. College, Dongargarh.	Establishment of Student's-Aid-Fund.	508
Govt. Degree College, Ambikapur.	Establishment of Text Book Library.	2,000
Dhantari Science, Arts and Commerce College, Dhantari.	- do -	2,000
	Total.	5,758

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46. Roorkee.	Construction of Staff quarters.	20,000
	Construction of Teachers Hostel	5,000
	Grant-in-aid for introduction of M.E Course in Mechancial Engg,	60,000
	Award of Junior Fellowships to Students-admitted for M.E. (Advanced Electrical Machines) course during 1967-68.	1,750
	Grant-in-aid for introduction of the P.G. Course in Civil Engg. Deptt.	50,000
	Grant-in-aid for the development and consolidation of existing degree courses and increase in intake in Electrical and Mech. Engg.	90,000
	Award of Junior Fellowships to Students admitted for M.E. Courses during 1967-68.	9,000
	Grant-in-aid for additional facilities on the bifurcation of the departments of Electrical and Telecomm. Engg.	30,000
	Grant-in-aid for introduction of degree course in Chemical Engg.	30,000
	Award of Senior Research fellowships in Science.	2,951.61
	- do - Engg. & Technology.	2,200
	Grant-in-aid towards studentships to M.Sc.(Applied Geology) students.	5,486.94
	Total.	3,06,388.55

47. S.N.D.T. Women's University, Bombay.	Purchase of Library books and Journals (Humanities)	10,000
	Purchase of furniture for Women Hostel.	6,451
	Basic grant for purchase of library books.	2,500
	Purchase of Scientific equipment for the Home Science.	7,167
	<u>Affiliated Colleges.</u>	
Z.F. Wadia Women's College, Surat.	Establishment of Student's-Aid-Fund.	1,128
Smt. M.M. Shah Mahila College, Surendranagar.	Basic grant for purchase of library books.	1,500
Shri Mahila Arts College, Visnagar.	- do -	1,500
	Total.	30,246

48. Sardar Patel.	Construction of hostel building under 4 year integrated teacher's training course.	80,000
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000

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Sardar Patel.	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	Purchase of Scientific equipment for the various Science deptts.	72,500
	Payment of unassigned grant for 1967-68.	9,000
	Grant of extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,175

Affiliated Colleges.

Vithalbhai Patel Mahavidyalaya, Vallabh Vidyanagar.	Basic grant for purchase of Library books.	2,500
Nalini & Arvind Arts College, Vallabh Vidyanagar.	- do -	2,500
H.M. Patel Institute of English, Vallabh-Vidyanagar.	- do -	1,500
Anand Arts College, Anand.	- do -	2,500

Total. 2,01,675

49. Sambalpur.	Unassigned grant for the Fourth Plan period.	6,500
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Affiliated College.

Regional Engg. College, Rourkela.	Financial assistance to teachers for Research work in Humanities and Social Sciences.	250
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Total. 6,750

50. Saugar.	Purchase of Scientific equipment in the deptt. of Zoology.	20,000
	Grant towards the scheme of research in Social welfare entitled "Analysis of value and attitudinal reactions of prisoners towards corrective measures in jails".	7,000
	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for college teachers.	10,000
	- do - Physics.	10,000

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Saugar Contd.

Extension in fellowship tenure of Senior Research fellowships in Engg. & Technology.	1,200
Award of Senior Research fellowships in Engg. & Technology.	2,006.45

Affiliated Colleges.

Swami Vivekanand. Mahavidyalaya, Teonthar.	Establishment of Text Book Library.	2,000
Arts & Commerce Degree College, Hanumana.	- do -	2,000
Nehru Degree College, Burhar.	- do -	2,000
Arts and Commerce College, Khurai.	- do -	2,000
Govt. Degree College, Piparia.	Establishment of Student's-Aid-Fund.	739
J.N. Memorial College, Sohagpur.	- do -	700
Total.		<u>69,645.45</u>

51. Saurashtra.	Unassigned grant for the Fourth Plan period.	13,000
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Affiliated Colleges.

Kamari Science College and Prataprai Arts College, Amroli.	Basic grant for purchase of library books.	2,500
P.D.M. Graduate Teacher's College, Rajkot.	- do -	1,500
Shri Somnath College, Veraval.	- do -	1,500
Shri Shardapeeth Arts College, Dwarka.	- do -	1,500
R.S. Teacher's College, Porbandar.	- do -	1,500
K.H. Madwani Arts & Commerce College, Porbandar.	- do -	2,500
Matu Shri Virbaima Mahila College, Rajkot.	- do -	2,500
M.P. Shah Commerce & Law College, Surrendranagar.	- do -	2,500
Shri U.N. Mehta Arts College, Morvi.	- do -	1,500
Smt. G.T. Sheth Commerce College, Morvi.	- do -	2,500

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Saurashtra Contd.

*	Sarvodaya Kalwani Sanaj Arts & Comm- erice College, Rajkot.	Purchase of books and equipment for Geography and Psychology deptts.	6,000
			39,000
Total.			39,000

52.	South Gujarat.	Grant towards revision of Salary Scales of teachers in S.B. Garda Arts and P.K. Patel College of Commerce, Navsari as per II Plan Scales of pay.	2,194.11
		Unassigned grant for the Fourth Plan period.	6,500

Affiliated Colleges.

7	M.T.B. College, Surat.	Basic grant for purchase of Library books.	2,500
	Arts & Science Coll- ege, Bardoli.	- do -	2,500
			13,694.11
Total.			13,694.11

53.	Shivaji.	Purchase of library books and journals (Humanities)	20,000
		Purchase of Press machinery.	40,000
		Grant for organising a Summer Institute in Biology for College teachers.	10,000
		Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
		Purchase of Living room furniture for Men Student's Hostel.	7,500
		- do - Women's Hostel.	5,625
		Construction of Teacher's Hostel.	6,000
		Grant towards the salary of a Professor appointed for the deptt. of Physics.	5,750
		Construction of building for the Botany deptt.	6,250

Affiliated Colleges.

4	Science College, Kared.	Basic grant for the purchase of library books.	2,500
	Sangli College, Sangli.	- do -	2,500
	Mudhoji College, Phaltan.	- do -	2,500
	Arts & Commerce College, Wai.	- do -	2,500
	Dayanand College of Arts & Science, Sholapur.	- do -	2,500

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Shivaji Contd.

Chintamanrao College, Basic grant for the purchase of Library of Commerce, Sangli. books.	2,500
Chhatrapati Shivaji College, Satara. - do -	2,500
S.P.K. Mahavidyalaya, Savantwadi. - do -	2,500
R.P. Gogate College, Establishment of Student's-Aid-Fund. Ratanagiri.	1,531.
Total.	1,32,656

54. Sri Venkateswara.

Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
Grant for organising a Summer Institute in Physics (All India) for College teachers.	10,000
Purchase of "F.C. 150 Model Jeep Truck" for the deptt. of Home Science.	35,000
Total.	55,000

55. Udaipur.

Grant for organising a Summer Institute in Physics for teachers from Higher Secondary Schools/PUC/Intermediate & Training Colleges.	10,000
Contingency grant for Junior Research fellowships in Science.	1,000
Financial assistance to teachers for research work in Humanities and Social Sciences.	500
- do -	500

Affiliated Colleges.

M.B. College, Udaipur	Basic grant for the purchase of Library books.	2,500
Total.		14,500

56. Utkal.

Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
- do - Chemistry.	10,000
Appointment of Staff for U.G.C. unit.	7,938.92
Payment of unassigned grant for 1967-68.	8,000

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Uttra Contd.

Affiliated Colleges.

Medical College, Berhampur.	Financial assistance to teachers for research work in Humanities and Social Sciences and Sciences.	750
Bhadrak College, Bhadrak.	Establishment of Student's-Aid-Fund.	3,000
Nimapara Collège, Nimapara.	- do -	1,198
	Total.	40,886.92

57. Vikram.

Grant towards the Salaries of additional staff approved during the II Five Year Plan.	10,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
Purchase of library books and journals for Various Science deptts.	20,000
Purchase of Scientific equipment for various Science deptts.	77,370

Affiliated Colleges.

Hamidia Arts and Commerce College, Jhopal.	Award of Scholarships for Honours and Post-graduate Studies in Arabic and Persian during 1967-68.	690
Shri Nehru Degree College, Agar.	Establishment of Text Book Library.	2,000
Jawahar Lal Nehru Smrati College, Shujalpur.	- do -	7,500
Govt. Degree Coll- ege, Ganj Basoda.	- do -	2,000
- do -	Establishment of Student's-Aid-Fund.	1,467
J.N.S. Post-gradu- ate College, Shujalpur.	- do -	997
	Total.	1,32,024

58. Visva-Bharati.

Celebrations of Gandhi Centenary.	30,000	
Conversion of Vichitra Open Auditorium into a closed type examination cum Auditorium Hall.	4,000	
Construction of boundary wall around grave yard.	5,000	
	Total.	39,000

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Institutions Deemed to be Universities.

1. Birla Institute of Technology and Science, Pilani.	Purchase of equipment for the introduction of Post-graduate Course in Engg.	1,00,000
	Payment of recurring grant under the scheme of reorganisation of degree courses in pharmacy.	30,000
	- do - introduction of degree course in Chemical Engg.	11,500
	Payment of recurring grant for staff and maintenance under the scheme of expansion of Birla College of Engg. under the National Emergency.	1,50,000
	Purchase of Scientific equipment for Science departments.	59,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	500
	Total.	3,51,000
	<hr/>	
2. Gurukula Kangri Vishwavidyalaya.	Purchase of Library books and journals (Humanities).	5,000
	Grant towards the salary of staff appointed under development schemes(H).	30,000
	Purchase of Scientific equipment for Chemistry deptt.	1,000
	Total.	36,000
<hr/>		
3. Indian Institute of Science, Bangalore.	Award of Junior Research fellowships in Science.	2,036.48
	- do -	2,122.58
	- do -	1,900
	Extension in fellowship tenure of Junior Research fellowships in Science.	600
	Contingent grant for Junior Research fellowships in Engg. & Technology.	849.91
	Extension in fellowship tenure of Senior Research fellowships in Engg. and Technology.	3,187.10
	Total.	10,696.07
<hr/>		
4. Indian School of International studies, New Delhi.	Grant towards the Salary of additional staff.	80,000
	Award of Senior Research fellowships in Humanities and Social Sciences.	2,693.55
Total.	82,693.55	

p.t.o.

5. Kashi Vidyapith.	Grant towards the salary of additional staff approved during IV Five Year Plan.	5,000
	Construction of Social Work College building.	10,000
	Utilisation of Services of retired teachers.	1,275.86
	Financial assistance for the establishment of Non-Resident Student's Centre.	5,000
Total.		21,275.86

Non-Plan

1. Aligarh Muslim University.	Maintenance grant for 1967-68.	4,03,122.24
Total.		4,03,122.24

2. Banaras Hindu University.	Maintenance grant for 1967-68.	1,00,000
Total.		1,00,000

3. Delhi.	Maintenance grant for 1967-68.	30,000
	- do - in respect of Delhi School of Social Work.	89,000
	- do - Miranda House.	1,00,000
	- do - Institute of Post-graduate (Evening) studies.	50,000

Constituent Colleges.

Janki Devi Mahavidyalaya, New Delhi.	Maintenance grant for 1967-68.	70,000
Modern College for Women, New Delhi.	- do -	75,000
Hastinapur College, New Delhi.	- do -	55,000
- do - (Evening)	- do -	30,000
Sanatan Dharma College, Dhaula Kuan, New Delhi.	- do -	50,000
Ramjas College, Delhi.	- do -	85,000
Deshbandhu College, Kalkaji, New Delhi.	- do -	1,00,000
- do - (Evening).	- do -	25,000
Mata Sundri College for Women, New Delhi.	- do -	25,000
Daulat Ram College, Delhi-7.	- do -	75,000
Lady Irwin College, New Delhi.	- do - 1965-66	74,762
Dyalsingh College, Lodi Road, New Delhi.	- do - 1967-68	74,000
S.G.T.B. Khalsa College, New Delhi.	- do -	1,31,000

p.t.o.

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Delhi Contd.

Kirori Mal College, Maintenance grant for 1967-68. Delhi.		2,17,000
Rajdhani College, Kirtinagar, New Delhi.	- do -	1,36,000
Hindu College, Delhi.	- do -	81,000
- do -	- do - 1965-66	8,442
Shyam Lal College, Shahdara, Delhi.	- do - 1967-68	74,000
Shri Ram College, of of Commerce, Delhi-7.	- do -	1,23,000
P.G.D.A.V. College (Day), New Delhi.	- do -	82,000
Women's College, Timarpur, Delhi.	- do -	89,000
St. Stephen's College, Delhi.	- do -	13,000
Ram Lal Anand College, New Delhi.	- do -	37,000
Lady Shri Ram College, for Women, New Delhi.	- do -	1,96,000
Indraprastha College for Women, New Delhi.	- do -	1,05,000
Hans Raj College, Delhi-7.	- do -	2,05,000
Delhi College, Ajmeri Gate, Delhi.	- do -	2,68,000
Lady Irwin College, New Delhi.	- do -	1,56,000
Dyalsingh College (Evening), New Delhi.	- do -	47,000
P.G.D.A.V. College (Evening), New Delhi.	- do -	58,000
Delhi College (Evening), Ajmeri Gate, Delhi.	- do -	69,000
	Total.	<hr/> 31,03,204
	Total Plan.	97,24,883.39
	Total Non-Plan.	36,06,226.24
	Grand Total of Plan and Non-Plan.	<hr/> 1,33,31,209.63

(ii) The selected students will be required to submit to the head of institution concerned the list of textbooks, within the amount sanctioned by them duly approved by the head of the department/teacher concerned.

(iii) The institution concerned will consolidate the list of textbooks thus submitted by the selected students and make the necessary arrangements for procuring the books, through their Co-operative Book Store, wherever it exists, or purchase them directly from authorised booksellers for distribution to the selected students at the beginning of the academic session.

(iv) To enable the institutions concerned to introduce this scheme at the beginning of the academic session 1968-69, the Commission will place at disposal in May/June 1968 an 'on account' grant of 50 percent of the admissible amount on the basis of total enrolment in the various classes at the first and second degree levels, as on 1st October 1967, and the balance of the admissible grant will be released on receipt of the actual enrolment class-wise for the year 1968-69, alongwith a statement of the expenditure incurred in respect of the grant released. As the admissions are generally made by August, the institutions are expected to be in a position to furnish this information by September, which would enable the Commission to release the second instalment of the grant during September, October of the year. The same procedure will continue in subsequent years.

(v) The recipient institutions will be responsible for submitting the utilisation certificate alongwith the audited statements of account against the grants released through their normal auditing agencies before the commencement of the next academic session. The expenditure, if any, incurred on this account will have to be borne by the institutions themselves.

VI. ENROLMENT

The Committee considered the enrolment position at the first and second degree levels in institutions recognised under the UGC Act for the year 1966-67 which were as follows:

Non-professional courses

Arts	...	3,70,540
Science	...	2,58,701
Commerce	.....	1,06,057
Total		<u>7,35,298</u>

Professional Courses

Engineering/Technology	....	61,070
Medicine	....	56,201
Law	...	26,168
Total		<u>1,43,439</u>
		<u>8,78,737</u>
Postgraduate Enrolment		91,830
Grand Total		<u>9,70,567</u>

The enrolment for the year 1968-69 at the first and second degree levels in various courses of studies (arts, science, commerce and the professional courses) may be of the order of 10 lakhs. The coverage of the top 10 percent students at the first and second degree levels as proposed for the assistance under the scheme, will enable about 1 lakh of deserving students to be benefited each year.

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The Committee felt that the scheme of providing assistance to deserving students for purchasing textbooks with an annual grant of Rs.50 lakhs, as proposed to be implemented through the UGC, would go some way in meeting the urgent and immediate needs of a large number of students in procuring textbooks which in many cases are beyond the reach of the average Indian student. For the immediate implementation of the scheme, the Committee suggested that the Ministry of Education may be approached for making funds available to the U.G.C. at an early date so that necessary grants may be released to the colleges and their institutions by April/May 1968 for procuring books for distribution to the selected students at the beginning of the academic session of 1968-69.

It was noted that under the present set up of the U.G.C., the benefit of the scheme is available only to institutions recognised under the UGC Act and institutions of National importance, such as the I.I.Ts, A.I.I.M.S, etc, are not eligible for assistance. The Committee was of the view that deserving students at these institutions also should have the benefit of similar help from the corresponding agencies or concerned Ministries.

J.S(A)

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Date :
Time :
Place :

Meeting:
6th March, 1968.
10.00 A.M.
UGC Building,
New Delhi.

AGENDA

- Item No.1* To receive the minutes of the meeting of the Commission held on 7th February, 1968.
- Item No.2* (a) To approve the action taken on certain matters.
(b) To receive items of information.
- Item No.3* To approve the statement of grants released after the last meeting of the Commission held on 7th February, 1968.
- Item No.4* To receive a statement of expenditure incurred by the University Grants Commission during 1967-68 (upto 31st January, 1968).
- Item No.5. To receive a note on the number and locations of the Summer Institutes to be organised during the summer 1968 for school and college teachers. p. 1-2
- Item No.6 To receive a note on the number and locations of the summer institutes in English Language for College teachers to be organised during 1968. p. 3-5
- Item No.7. To consider the following recommendations of the A.I.C.T.E. p. 6
(a) Fourth Plan proposals of the Banaras Hindu University relating to engineering and technological education. p. 7-23
(b) Introduction of post-graduate courses in Business Management at Banaras Hindu University. p. 34-37
(c) Provision of students' amenities at Jadavpur University. p. 38
(d) Additional grant for the purchase of equipment for post-graduate courses in engineering at Jadavpur University. p. 39-40
- Item No.8. To consider the proposal of the Department of Social Welfare for the establishment of a National Council of Social Work Education and Training. p. 41
- Item No.9. To consider the Report of the Panel on Employment Information and Students Service Bureaux. Withdrawn
- Item No.10. To consider the Report of the Committee appointed by the University Grants Commission to advise on the operational details regarding payment of direct subsidy to college students for purchasing text books. p. 42-46
- Item No.11. To consider the report of the Committee appointed by the University Grants Commission to consider the integration of the Scheme of Historical Grammar of Hindi language and survey of literature of the Banaras Hindu University with the Hindi Department. p. 47-54

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- Item No.12 . To consider the report of the Committee appointed by University Grants Commission to review the working of the Hyderabad Metropolitan Project of the Osmania University. p. 55-61
- " 13. To consider a proposal from Gujarat University regarding additional grant for the construction of buildings for the Departments of Physics, Chemistry, Botany and Mathematics. p 62
- " 14. To consider the following proposals of the Gujarat Vidyapith: p 63
- (a) for extending facilities in Ph.D. in other subjects of Social Sciences and Humanities. p 64
- (b) assistance outside Fourth Plan allocation towards establishment of the Printing Press. p. 65-67
- " 15. To consider the proposal of the Aligarh Muslim University for an additional grant for the installation of a lift in the Arts Faculty building. p. 68
- " 16. To consider a proposal received from the Jamia Millia Islamia to utilise the unspent balance out of the grant paid for organising a Seminar on Historians of Medieval India towards publication of the proceedings of the Seminar. p 69
- " 17. To consider the proposals received from Kerala University for development of post-graduate departments of basic sciences in affiliated colleges. p 70-72
- " 18. To consider the request of the Patna University for giving assistance towards revision of salaries of the teachers appointed against posts created after the implementation of the scheme. p. 73-74
- " 19. To consider the proposal of the Bihar Government regarding continuance of Commission's assistance towards revision of the salary scales of university and college teachers beyond the Third Plan. p. 75-78
- " 20. To consider further the reference from the Sardar Patel University with regard to regional planning of higher education and specialisation in the interest of rational utilisation of resources. p. 79
- " 21. To consider the request of the Varanaseya Sanskrit Vishwavidyalaya for an additional grant of Rs. 5,000 for Printing of Brochures, Proceedings etc., of the Conference entitled "Darshan Parishad". p 80-82
- " 22. To consider a manuscript for publication of a brochure on various Cultural Exchange Programmes assigned to the University Grants Commission for implementation. p. 83-100
- " 23. To consider the request of the New Science College, Hyderabad for an additional grant for the construction of a library and laboratory building. p. 101 (will follow)
- " 24. To consider a proposal for assistance to Kala-Kendra, an institution recognised by Bhagalpur University. p. 102-103

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- Item No. 25. To consider the basis of grants for Correspondence Courses. p.104 (Will follow)
- " 26. To consider the reports of the Visiting Committees appointed by the University Grants Commission to assess the Fourth Plan requirements of the Universities.
- " 27. To consider certain establishment matters of the University Grants Commission.
- " 28. To note the date and place of the next meeting of University Grants Commission.

Any other items.

UNIVERSITY GRANTS COMMISSION

PROCEEDINGS OF THE 92ND MEETING OF THE UNIVERSITY
GRANTS COMMISSION HELD ON 7TH FEBRUARY 1968.

...

The following were present :

- | | |
|----------------------|-----------|
| 1. Dr. D.S. Kothari | Chairman |
| 2. Dr. S. Dhawan | Member |
| 3. Dr. D.S. Reddi | " |
| 4. Shri B. Shiva Rao | " |
| 5. Prof. A.R. Wadia | " |
| 6. Dr. P.J. Philip | Secretary |

Secretariate

- | | |
|---------------------------|---------------------|
| 1. Shri R.K. Chhabra | Joint Secretary |
| 2. Dr. D. Shankar Narayan | Joint Secretary |
| 3. Dr. R.C. Gupta | Development Officer |
| 4. Dr. R.D. Deshpande | Development Officer |
| 5. Dr. J.N. Kaul | Development Officer |
| 6. Dr. S.K. Das Gupta | Development Officer |

Apology for absence was received from Dr. P.B. Gajendragadkar, Shri P.N. Kirpal, and Shri T.P. Singh.

Item No. 1: To receive the minutes of the Commission held on 6th and 7th December, 1967.

The minutes of the 91st meeting of the University Grants Commission held on 6th and 7th December, 1967, already circulated, were confirmed.

Item No. 2: (a) To approve the action taken on certain matters.
(b) To receive items of information.

(a) The Commission approved the action taken on items listed in Appendix I. *

(b) This was noted. The Commission noted (reference item 7) with appreciation the work relating to discovery of new geological deposits done by the Centres of Advanced Study in Geology at Saugar and Panjab Universities.

Item No. 3: To approve the statement of grants released after the last meeting of the Commission held on 6th & 7th December, 1967.

The Commission approved the grants released after the last meeting of the Commission (held on 6th and 7th December, 1967) as in Appendix II. *

Item No. 4: To receive a statement of expenditure incurred by the University Grants Commission during 1967-68 (upto 31st December, 1967).

This was noted.

* Not enclosed.

Item No. 5: To receive a note on cases of student indiscipline during the period July-December, 1967.

This was noted. The Commission desired that the question of student unrest and welfare may be considered by the Advisory Committee of Vice-Chancellors.

Item No. 6: To receive the report of the Conference of representatives of the Students Unions held in Delhi in August, 1967.

This was noted.

Item No. 7: To receive reports relating to the visits of Dr.D. Shankar Narayan, Joint Secretary, U.G.C. to

i) U.K. in connection with the implementation of the programme of British Assistance to Centres of Advanced Study in Indian Universities.

ii) U.S.S.R. as a member of the UNESCO Evaluation Mission.

i) & ii) The reports may be circulated to the universities concerned and their comments invited about action to be taken by them regarding the suggestions made in the report.

Item No. 8: To receive the report of Prof. V.N. Gribov, UNESCO Expert to the Centre of Advanced Study in Physics, University of Delhi under the United Nations Expanded Programme of Technical Assistance in 1967.

This was noted. The comments of the Delhi University may be invited on the suggestions made by Professor V.N. Gribov and the University requested to inform the Commission of the action taken to implement them.

Item No. 9: To receive a report on the implementation of Cultural Exchange Programmes.

The Commission desired that the draft of the booklet to be published on the Cultural Exchange Programmes may be placed before the Commission at its next meeting.

Item No. 10: To receive the minutes of the meeting of the Standing Committee of the Inter-University Board held in September, 1967.

This was noted.

The Commission desired that the date for the next meeting of the Standing Committee of the Inter-University Board with the UGC may be fixed in consultation with the Inter-University Board.

Item No. 11: To receive the decision of the Bar Council of India regarding introduction of the Three-Year Degree Course in Law in Universities.

It was noted that the matter would be further discussed with the Bar Council. It was felt that in the interest of upgrading legal education, while the Bar Council may indicate broadly the standards to be attained for professional purposes, the duration of the courses, details of course contents in terms of "purpose", methods of teaching and such matters should be left to the universities themselves.

Item No. 12: To receive a note on the reorganization of the U.P. University Grants Committee.

This was noted. The Committee has now been redesignated as University Education Advisory Board. It was suggested that the Commission, during its visit to Lucknow in April, may meet the Committee.

Item No. 13: To receive a note on the Report of Dibrugarh University Survey Committee.

This was noted. The State Government and the University may be requested to intimate to the UGC the action taken (or proposed to be taken) on the recommendations of the Committee.

Item No. 14: To receive the report of the Committee appointed by the Commission to consider the participation of University and College teachers in the Family Planning Programme.

The Commission accepted generally the recommendations of the Committee & desired that the Ministry of Health be requested to provide financial support on a cent per cent basis for the implementation of the recommendations. The Commission agreed with the recommendations 11 and 12 emphasizing the importance of research on reproduction biology and population dynamics.

Item No. 15: To receive the minutes of the Standing Committee appointed by the Commission to consider establishment of new Universities.

This was noted. The Commission agreed with the recommendation of the Committee regarding general principles to be followed for deeming an institution as a university under Section 3 of the U.G.C. Act.

The Commission desired that Dr. S. Dhawan be invited to be a member of the Standing Committee.

Item No. 16: To consider the advice of the Ministry of Law with regard to the inclusion of constituent recognised institutions of Bombay University in the list of colleges under Section 2(f) of the U.G.C. Act.

The Commission accepted the advice of the Law Ministry and agreed that the present regulation for bringing affiliated colleges of universities within the purview of the Commission under section 2(f) of the U.G.C. Act may not be amended at this stage.

Item No. 17: To consider the following items received from the Ministry of Education :

- (a) Fraternal Association of Medan University, Indonesia with Universities in India.
- (b) introduction of one-year Certificate Course in translation (English & Hindi) in the Calcutta University.
- (c) continuance of assistance to the university maintained Engineering and Technological institutions/departments towards A.I.C.T.E. scales of pay.

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(d) association of National Council for Science Education with U.G.C.

(a) The Commission welcomed the suggestion about promoting contacts between the Medan University and Indian Universities. In this connection information be obtained about facilities for study and research available at the Medan University. The Commission would welcome a visit to Indian Universities by a delegation of the Medan University.

(b) The Commission considered the proposal of the Calcutta University regarding introduction of a one-year Certificate Course in English-Hindi translation and (after taking into account the likely demand and scarcity of funds) regretted its inability to give assistance at this stage. The Commission desired that information be obtained from the University about translation courses in English-Bengali provided by the University.

(c) The Commission desired that in view of the importance and urgency of the matter there should be an early decision regarding the total period for which central assistance would be given to the universities for development schemes in engineering and technology initiated during the Third Plan period (and earlier). The Commission felt that the pattern of development assistance to universities for engineering and technology should be generally on the same basis as in the case of other disciplines, particularly science subjects.

(d) In view of the need and importance of the programme of science education the Commission agreed to accept responsibility for its operation for a period of three years, in the first instance, if so desired by the Ministry of Education. The necessary funds for the implementation of the programme (except that part which is supported by the UGC from its present funds) would have to be provided to the Commission separately. Under the new arrangement, the National Council for Science Education would be replaced by an appropriate standing committee of the Commission (which may be called the National Committee on Science Education).

Item No. 18: To consider the allocation of the University Grants Commission for Technical Education for the IV Plan period.

This was noted. In this connection the Commission reiterated its earlier view that in the interest of efficient utilization of the available funds for engineering and technical education the allocation of the amount between different heads should be done by the UGC after taking into account the relative needs of different institutions and fields of study.

Item No. 19: To consider the following recommendations of the AICTE:

- (a) introduction of a post-graduate course in Management Studies at Aligarh Muslim University
- (b) Fourth Plan proposals of the Banaras Hindu University relating to engineering & technological education
- (c) provision of students' amenities at Jadavpur University
- (d) introduction of postgraduate courses in Chemical Engineering and Textile Technology at the University of Madras.

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(a) The Commission generally accepted the recommendations of the AICTE regarding introduction of a post-graduate diploma course in Management Studies at the Aligarh Muslim University and agreed that admission to the course be made only after satisfactory arrangements have been made regarding staff & other essential facilities. The Commission desired that the recommendations of the AICTE relating to the courses, admissions of students and other other related matters may be communicated to the University for general guidance.

(b) Consideration of this item was postponed. It was agreed that the Technical Adviser to the Ministry of Education be invited when this matter is taken up by the Commission.

(c) Consideration of this was postponed.

(d) The Commission accepted the recommendations of the AICTE for introduction of post-graduate courses in Chemical Engineering and Textile Technology at the Madras University and agreed to provide the following facilities on a cent per cent basis, on the usual condition that the University/State Government agreed to take over the recurring expenditure after the Commission assistance ceases.

<u>CHEMICAL ENGINEERING</u>		<u>SANCTIONED INTAKE 15</u>
A. <u>Non-Recurring</u>		Approved Cost (Rs.)
i) Accommodation 600 sq.ft.		1,50,000
ii) Furniture		10,000
iii) Library		10,000
iv) Equipment		1,50,000

Total (Non-Recurring):		Rs. 3,20,000

B. <u>Recurring (per annum)</u>		
<u>Teaching Staff</u>		
Professor	... One	
Readers	... Two	52,050
Lecturers	... One	
<u>Non-Teaching Staff</u>		
Library		10,500
Maintenance @ Rs.1000 per student		3,000
Scholarships @ Rs.250/- p.m. per student		30,000

		Rs. 1,85,550 p.a.

II. TEXTILE ENGINEERING SANCTIONED INTAKE 5

A. <u>Non-Recurring</u>		
i) Accommodation: 5000 sq.ft.		1,25,000
@Rs.25 per sq.ft.		
ii) Laboratory & Furniture		10,000
iii) Library		10,000
iv) Equipment		1,50,000

Total (Non-Recurring):		Rs. 2,95,000

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(B) Recurring

<u>Teaching Staff</u>		
Professor	... One	
Reader	... One	26,200
<u>Non-Teaching Staff</u>		5,200
Library		2,000
Maintenance @ Rs.1000/- per student		10,000
Scholarships @ Rs.250/- p.m. per student		30,000

Total (Recurring)		Rs. 73,400 p.a.

Item No. 20: To consider the proposal of the Department of Social Welfare for the establishment of a National Council of Social Work Education and Training.

Consideration of this item was postponed.

Item No. 21: To consider the report of the Review Committee on Teaching and Research in History.

The Commission desired that the report may be printed and circulated to the universities. Attention may be drawn to the need to strengthen collection of source materials relating to the Modern Period in Indian History.

Item No. 22: To consider the report of the Committee appointed to review the progress and to examine the Fourth Plan development needs of the post-graduate Institute of Basic Medical Sciences, Calcutta University.

The Commission desired that the report may be sent to the Calcutta University for its views/comments with special reference to the recommendations of the Committee for the introduction of a three-year honours degree course.

Item No. 23: To consider the report of the Committee appointed by the U.G.C. to examine a reference from the Government of India for assistance from the Ford Foundation towards the development of the Law Faculty of the Banaras Hindu University.

The Commission generally accepted the report of the Committee, and desired that the University be requested to implement the recommendations made in the report.

Item No. 24: To consider the report of the Committee appointed to determine maintenance grants for the Central Universities for the years 1961-62 to 1963-64.

The Commission accepted the recommendations of the Committee and sanctioned payment of a grant of Rs.4,10,453.11P to cover the deficit of the University for 1961-64.

Item No. 25: To consider the report of the Committee by the U.G.C. to examine the proposals of the Punjabi University to introduce correspondence courses at the FUC/B.A. level.

The Commission accepted the recommendations of the Committee. It was agreed that there would be an advantage in providing FUC

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courses in Punjabi and also in English. The question of the UGC grant for the scheme may be brought up before the Commission at the next meeting. In this connection it was felt that it would be useful to have correspondence courses at certificate and diploma levels in engineering and practical crafts. The Commission desired that a note on the subject may be placed before the Commission at a later meeting.

Item No. 26: To consider the recommendations of the Standing Advisory Committee on Area Studies.

The Commission accepted the recommendations of the Standing Advisory Committee on Area Studies and, in view of the importance and value of such studies, desired that when considered necessary assistance for this purpose may be provided to universities outside the Fourth Plan allocations, provided the Universities/State Governments agree to meet the expenditure after the Commission's assistance ceases.

The following grants/proposals recommended by the Committee were approved :

The Department of Sociology of the Delhi University.

i) For studies relating to Pakistan:

Staff

Professor 1
Stenographer 1

Other charges

Furniture, equipment etc. Rs. 6,000
Contingencies stationery etc. Rs. 3,000

(The total estimated expenditure for the Plan period would be limited to Rs.63,000/-).

ii) Chinese Studies at the Delhi University:

It was agreed that the University may, if it so desires, appoint a Reader and a Lecturer in place of the Professorship sanctioned on the basis of the recommendation of the Visiting Committee.

iii) The Department of Political Science of the Rajasthan University may be assisted for a period of two years (1969-71) as below for the South Asia Studies:

1) Library	Rs. 25,000
2) Staff	
a) Reader in South Asian Studies	Rs. 24,000
b) Research Fellowships (Sr. - 2)	Rs. 28,000
c) Research Fellowships (Jr. - 3)	Rs. 28,000

Total:	Rs.1,05,000

It was desired that the important recommendation of the Committee may be placed before the Advisory Committee of Vice-Chancellors.

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Item No. 27: To consider the recommendations of the Advisory Committee on History Programmes.

The Commission agreed that the views of the universities on the recommendations of the Advisory Committee on History Programmes may be obtained. The Commission accepted the proposals for holding two seminars/summer schools as recommended by the Committee.

Item No. 28: To consider further the proposal of the Aligarh Muslim University regarding Ghalib Centenary celebrations.

The Commission accepted the proposal of the Aligarh Muslim University regarding Ghalib Centenary celebrations and agreed to give a grant of Rs.32,000 for this purpose.

Item No. 29: To consider a proposal of the Banaras Hindu University for establishment of an independent Flying Club at the University.

The Commission could not accept the proposal of the University at this stage.

Item No. 30: To consider the following proposals received from Delhi University :-

- (a) additional library staff in the constituent colleges of the university
- (b) assistance for the acquisition of a computer system with Ford Foundation grant
- (c) providing free unfurnished residential accommodation to the Pro-Vice-Chancellor
- (d) financial assistance towards introduction of Honours Course in Sociology.

(a) The Commission agreed to the appointment of an additional professional assistant in the colleges of the Delhi University, and also to increase the maximum limit of the grant for library books from Rs.10,000/- to Rs.15,000/- per annum, with effect from 1968-69.

(b) The Commission desired that the proposal of the Delhi University for assistance for acquisition of a computer system with Ford Foundation grant may be examined by an expert committee.

(c) The Commission reiterated its earlier decision that the Pro-Vice-Chancellor of the Delhi University may be provided a suitable house but he would pay rent in accordance with normal practice (10 per cent of salary).

(d) The Commission accepted in principle the proposal of the Delhi University to introduce an honours course in Sociology with effect from the academic session 1968-69 and desired that a committee may be appointed to examine the needs of the University in this regard.

Item No. 31: To consider a proposal from Andhra University for the establishment of an Institute of Basic Medical Sciences.

The Commission desired that the views of the Andhra Pradesh State Government may be obtained with reference to the sharing of expenditure and the maintenance of recurring expenditure after the Commission's assistance ceases.

Item No. 32: To consider a proposal of the Gujarat University in regard to allotment of flats in the Teachers' Hostel.

The Commission noted that a teachers' hostel is intended for university and also college teachers. The Gujarat University be informed that spare accommodation may be allotted to college teachers. In special cases accommodation may be also provided to Research Fellows.

Item No. 33: To consider the proposal from the Indore University for a book grant of Rs.75,000 and a recurring grant of Rs.14,000 per annum for the maintenance of Students' Home.

The Commission regretted its inability to provide assistance to Indore University for maintenance of the Students' Home. As regards a grant for purchasing books for the Students' Home, the Commission desired that the University may be requested to meet the expenditure from the library grant already sanctioned to it.

Item No. 34: To consider a proposal from the Karnatak University for assistance to the extent of \$ 10,000 from the Population Council, USA for import of science equipment for their research project on the study of vertebrates.

The Commission agreed to the proposal of the Karnatak University to obtain assistance, to the extent of \$ 10,000, from the Population Council for import of science equipment for their research projects on the study of vertebrates.

Item No. 35: To consider a proposal of the Mysore University for financial assistance towards the editing of a Sanskrit Kannada Dictionary.

The Commission commended the proposal of the Mysore University for editing of a Sanskrit-Kannada Dictionary but regretted that owing to paucity of funds it was not possible to make any grant for this purpose. The University may approach the Ministry of Education to provide assistance for the project out of the special fund set apart for the development of Indian languages.

Item No. 36: To consider the request of the Panjab University regarding the revision of salary scales of the teachers of the Vishveshvaranand Institute of Sanskrit and Indological Studies, Hoshiarpur.

The Commission desired that the matter may be brought up again for consideration after ascertaining as to how the university proposes to meet the liability after the Commission's assistance ceases.

Item No. 37: To consider the request of the Patna University for giving assistance towards revision of salaries of the teachers appointed against posts created after the implementation of the scheme.

Consideration of this was postponed to the next meeting.

Item No. 38: To consider the proposal of the Udaipur University for assistance towards the revision of salary scales of the School of Basic Sciences and Humanities (M.B. College Udaipur) with effect from 1st July, 1964.

The Commission accepted the proposal of the Udaipur University and agreed to provide assistance towards revision of the salary scales

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of teachers of the School of Basic Sciences and Humanities (M.B. College, Udaipur) with effect from 1st July, 1964 on the usual basis.

Item No. 39: To consider further the proposal of the Rajasthan University for assistance towards the establishment of the Centre of Continuing Education.

The Commission accepted the revised proposal of the Rajasthan University, provided the expenditure on this account is met by the University within 70% of the allocation already communicated to the University and on the understanding that the total expenditure on the scheme will be met by the University when the Commission's assistance ceases after 1970-71. The Commission regretted that owing to paucity of funds it was not possible to give assistance for this purpose outside the 70 per cent of the Fourth Plan allocation.

Item No. 40: To consider a proposal of the S.N.D.T. Women's University for enhancing the Golden Jubilee grant of Rs. 5 lakhs.

The Commission agreed that in view of the special needs of the university, the grant may be raised from Rs. five lakhs to seven and a half lakhs.

Item No. 41: To consider the purchase of a ready-made building by Mudhoji College Phalton (Shivaji University) with the grants paid under the Three Year Degree Course Scheme.

The Commission desired that an officer of the Commission may visit the College and make a report to the Commission.

Item No. 42: To consider proposals received from the following affiliated colleges for the development of their post-graduate science departments during the IV Plan period

(a) Agra University	...	St. John's College, Agra
(b) Kanpur University	...	D.A.V. College, Kanpur
(c) Madurai University	...	VHNSN College, Virudhunagar
(d) Meerut University	...	M.M.H. College, Ghaziabad
(e) Poona University	...	Fergusson College, Poona

(a) The Commission accepted the proposal of the Agra University for assistance to St. John's College, Agra for the development of its post-graduate department of chemistry during the Fourth Plan period and to provide a sum of Rs. 71,500/- as UGC's share or 50% of the expenditure whichever is less.

(b) The Commission desired that the proposal of this College may be referred to a Committee.

(c) The Commission agreed that a grant upto Rs. 60,000 be paid to the VHNSN College (Madurai University) for the development of the post-graduate Department of Chemistry for the following purposes:

	<u>UGC's share</u>	<u>College's share</u>
(i) Equipment	Rs. 45,000	Rs. 15,000
(ii) Books	Rs. 5,000	Rs. 1,666
(iii) Furniture & fittings	Rs. 10,000	Rs. 10,000
Total :	Rs. 60,000	Rs. 26,666

(d) The Commission desired that the proposal of this College be referred to a Committee.

(e) The Commission considered the proposal of the Poona University for assistance to Fergusson College and agreed to provide a grant upto Rs.1 lakh for the development of the Department of Mathematics and Statistics in the Fergusson College.

Item No. 43: To consider the request of the New Science College, Hyderabad for additional grant for the construction of a laboratory building.

Consideration of this item was postponed to the next meeting.

Item No. 44: To consider the question of reviving the sanction for the Centenary grant to Maharajah's College, Vizianagram (Andhra University) for the construction of a laboratory building (Geology Block).

The Commission regretted its inability to accept in its present form the proposal of the Maharajah's College, Vizianagram (Andhra University) for revival of the sanction of the centenary grant for the construction of the laboratory building (Geology Block).

Item No. 45: To consider the request of St. John's College, Agra for an enhanced grant for the project relating to its expansion of science education earlier accepted by the Commission.

The Commission noted the circumstances under which the completion cost of the project had increased and agreed to meet the additional expenditure of Rs.49,653/- on 50:50 basis.

Item No. 46: To consider the question of recovery of rent from Gopal Krishna Gokhale College, Kolhapur in respect of the Women's hostel building rented out to Shivaji University, Kolhapur.

The Commission desired that the views of the University regarding the utilisation of the Women's Hostel constructed by the College be obtained and the matter placed before the Commission at a later meeting.

Item No. 47: To consider a note on the development of library facilities in universities and colleges.

The Commission considered the note on the development of facilities in universities and colleges and desired that it may be suitably edited, printed and circulated to the universities and colleges, along with any additional material that may be necessary.

Item No. 48: To consider a proposal for creation of a 'Professors Pool'.

It was desired that this may be referred to the Advisory Committee of Vice-Chancellors.

Item No. 49: To consider the views of the Universities on the proposal of the Ministry of Home Affairs for utilisation of the panel of suitable candidates prepared by the UPSC for appointment in universities.

The Commission accepted the suggestion of the Ministry of Home Affairs for utilisation of the panel of suitable candidates prepared by the UPSC for appointment in universities and desired that lists of

such panels may be circulated to the universities by the UPSC, under intimation to the UGC.

Item No. 50: To consider a reference from the State Government of Gujarat regarding the period of assistance towards the staff appointed under the scheme of the 4-year integrated course of training teachers in Science and Mathematics being implemented by the Sardar Patel University.

Consideration of this item was postponed to a later meeting.

Item No. 51: To consider the proposal from the State Government of Kerala for the establishment of two new universities at Calicut and Ernakulam.

It was agreed that the proposal of the Kerala Government may be referred to the Standing Committee on New Universities.

Item No. 52: To consider the question of revision of the norms laid down by the Commission for construction of staff quarters in the universities with assistance from the U.G.C.

The Commission accepted the recommendation made by the Central Universities Vice-Chancellors' Committee regarding areas to be provided for different types of staff quarters. The Commission, however, desired that the area for the Vice-Chancellor's house be about the same as for a professor with provision for an office unit for which a built-up area of 250 sq.ft. may be allowed.

Item No. 53: To consider the general question of insuring library/laboratory and other buildings of the colleges/universities.

It was agreed that this may be referred to the Advisory Committee of the Vice-Chancellors.

Item No. 54: To consider the question of payment of T.A. etc. to architects for inspection and supervision of building projects of the universities.

The Commission desired that the payment of T.A. etc. to architects for inspection and supervision of building projects should be provided within the normal fees paid to them and that any additional expenditure incurred in this connection will have to be met by the universities themselves.

Item No. 55: To consider a proposal from Ford Foundation for the distribution of 'A Self Study Manual for Indian Colleges and Universities' to universities/colleges.

This was withdrawn.

Item No. 56: To consider a proposal for promoting closer academic relations between selected university departments and affiliated colleges.

This proposal may be placed before the Advisory Committee.

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Item No. 57: To note the date and place of the next meeting of the Commission.

It was noted that the next meeting of the Commission will be held on 6th March 1968 in New Delhi.

It was noted that the first meeting of the Advisory Committee of Vice-Chancellors will be held at Delhi on 7th March, 1968.

The Commission desired that the Vice-Chancellors of the Northern Universities be invited to meet the Commission at its April 1968 meeting, which may be held at Lucknow.

Item No. 58: To consider the reports of the Visiting Committees appointed by the Commission to assess the Fourth Plan requirements of the Universities.

The Commission considered the reports of the Visiting Committees of 10 universities and five institutions deemed to be universities. The Commission agreed that the reports of the following universities/institutions deemed to be universities be accepted on the same basis as indicated in Commission's Resolution No. 12 dated 5th July, 1967 :

- 1) Aligarh Muslim University
- 2) Gujarat University
- 3) Indian Institute of Science
- 4) Jamia Millia Islamia

Consideration of the remaining reports was postponed to the next meeting.

Item No. 59: To consider the proposal of the Ministry of Education, Government of India for transfer of its scheme for award of Post-doctoral Research Fellowships in Science subjects to the University Grants Commission for implementation.

The Commission agreed to take over the scheme of the Ministry of Education for the award of post-doctoral Research Fellowships in science subjects to the University Grants Commission and desired that details regarding operation of the scheme may be discussed with the Ministry of Education.

Item No. 60: To consider the proceedings of the Working Group appointed to formulate criteria for selecting universities for setting up Schools of Education and for selecting a few post-graduate teachers colleges limited assistance during the current year.

The Commission considered the report of the Working Group and accepted the recommendations regarding promotion of inter-disciplinary research on education in some selected universities. It was desired that other recommendations of the report may be placed before the Commission later when the budgetary position was known.

Item No. 61: To consider the report made by Prof. P.N. Mehra regarding establishment of a special cell in one of the colleges in Shillong to promote research in Botany in the hill areas of Assam.

The Commission desired that the views of the Shillong College be invited and this matter be further discussed with Prof. P.N. Mehra before it is brought up again before the Commission.

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Item No. 62: To consider the recommendations of the A.I.C.T.E. regarding introduction of post-graduate course in chemical engineering at the Annamalai University.

The Commission accepted the proposal of the Annamalai University for organising a post-graduate course in chemical engineering at the Annamalai University and agreed to provide the following grants on a cent-per cent basis subject to usual conditions :

A. Non-Recurring

1. Equipment	Rs. 1,80,000
2. Furniture	Rs. 10,000
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Total:	Rs. 1,90,000
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B. Recurring (p.a.)

1. <u>Teaching Staff</u>			
Professor	1	X	
Readers	2	X	Rs. 50,200
Lecturers	1	X	
(honorarium for part-time teachers Es.5,000/-)		X	
2. Non-teaching staff		Rs.	9,600
3. Maintenance store etc.		Rs.	10,000
4. Books & Journals		Rs.	5,000
5. Scholarships		Rs.	30,000
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Es. 1,04,800			
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Item No. 63: To consider a proposal of the Delhi University for financial assistance for the development of land for providing staff quarters.

The Commission accepted the proposal of the Delhi University for financial assistance for the development of land for providing staff quarters at an estimated cost of Es.1,71,000/- including the boundary wall.

Item No. 64: To consider the proposal of the Meerut College, Meerut for undertaking the construction of the Psychology building.

The Commission accepted the proposal of the Meerut College for the construction of the Psychology building at an estimated cost of Rs.74,050 and agreed to share the expenditure on the Fourth Plan basis of 50:50.

Item No. 65: To consider a proposal from the Osmania University, Hyderabad to invite Dr. G.S. Reddy as a Visiting Professor.

This was withdrawn.

Item No. 66: To consider the proposals of the Universities of Rajasthan and Jabalpur for assistance to secure the services of French Language Teachers under the Indo-French Cultural Exchange Programme 1968-70.

It was agreed that the matter may be brought up before the Commission along with information regarding the basis on which

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assistance is given to teachers in languages under other Cultural Exchange Programmes.

Item No. 67: To consider the establishment of a Gandhi Bhavan at Sardar Patel University.

The Commission accepted the proposal of the Sardar Patel University for constructing a Gandhi Bhavan and agreed to provide a grant of Rs.50,000/- for this. It was noted in this connection that the University will accommodate this expenditure within 70% of its Fourth Plan allocation.

Item No. 68: To consider the suggestions made by the Lal Bahadur Shastri National Memorial Trust for instituting Shastri Memorial Awards and arranging Annual Shastri Memorial Lectures on topical subjects.

This was noted.

Item No. 69: To consider further the question of the application of revised scale of pay of Tutors and Demonstrators holding B.A./B.Sc. degree.

It was agreed that the views of the State Universities be invited in the first instance.

Item No. 70: To consider the report of the Committee appointed by the U.G.C. to examine the scheme of the University of Rajasthan to introduce correspondence courses.

The Commission accepted the proposal of the Rajasthan University to introduce correspondence courses at the FUC (Commerce) and B.Com. through the medium of Hindi. It was desired that the question of the quantum of assistance and sharing basis may be brought up before the Commission at its next meeting.

Sd/-
(P.J. Philip)
Secretary

Sd/-
(D.S.Kothari)
Chairman

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 2(a): To approve action taken on certain matters.

- (1) Indian National Commission for Cooperation with UNESCO - Ministry of Education,

The Indian National Commission for Cooperation with UNESCO, Ministry of Education, sent a document concerning the study of Buddhist Arts, with the observations of the Director-General of Archaeology on it, for comments of the University Grants Commission.

The suggestion of the Director-General of Archaeology that the U.G.C. may create two research fellowships at Indian Universities for promoting study and research in Buddhist Art and Architecture has been accepted and the Ministry of Education informed accordingly.

- (2) Calcutta University - Diversion of funds from Recurring to Non-recurring head of expenditure under the scheme of development of Department of Ancient Indian History and Archaeology,

The Commission approved in October, 1964 a scheme of the Calcutta University for the establishment of a Museum for the exhibition of antiquities unearthed through excavation and for setting up a laboratory for cleaning and preservation of antiquities at a total cost of Rs. 15,000, on condition that the expenditure is met by the University out of the savings of the recurring grant of Rs. 75,000 p.a. sanctioned for the development of the department of Ancient Indian History and Archaeology, (Resolution No. 22 dated 26th/27th September, 1958). This appropriation of funds from Recurring to Non-recurring was not brought to the attention of the Commission. The Commission may approve the action taken.

- (3) Panjab University - Award of Junior Research Fellowship to Shri Sant Lal - Extension of award.

In September 1964, a Junior Research Fellowship of the value of Rs. 300/-p.m. was awarded to Shri Sant Lal, a blind Hindi scholar of the Panjab University for a period of two years. In addition, the following facilities were also approved for a period of one year (from 26.2.1965 to 25.2.1966) :

- (a) An amahuensis at Rs. 100/-p.m.
- (b) Contingency for books and accessories etc. Rs. 1000/-p.a.

The above facilities were extended upto 25.2.1967 on the recommendation of the Panjab University. It was reported to the Commission at its meeting on 5th May, 1966.

On the recommendation of the Panjab University, the fellowship of Shri Sant Lal has been further extended for a period of one year (26.2.1967 to 25.2.1968).

- (4) Saurashtra University - Basic grant for the purchase of library books and journals during Fourth Plan.

The Saurashtra University (set up in June, 1967) approached the Commission for a grant towards the purchase of library books and journals to meet its immediate requirements in the humanities, social sciences and science subjects. Pending the appointment of a Visiting Committee to assess the Fourth Plan requirements of the University, a "basic grant" of Rs. 1,50,000 has been allocated to the University for books and journals.

- (5) Proposal from the University of Meerut - regarding financial assistance for the purchase of books to colleges doing post-graduate teaching in Physics.

On a proposal from the Meerut University for a special library grant to postgraduate colleges affiliated to the university for buying books and journals of an urgent nature for their departments of Mathematics, Physics and Commerce consequent upon the upgrading of courses in these subjects, the Commission at its meeting held on 2nd March, 1967 had agreed in principle to assist these colleges for purchasing books in Mathematics to the tune of an expenditure not exceeding Rs. 15,000/-

Though the courses of almost all subjects under the University have been revised, the revision has been more drastic in Mathematics, Physics and Commerce. The Vice-Chancellor therefore stated that other departments viz., Physics and Commerce may also be provided with similar grants.

The Vice-Chancellor had also recommended such a grant for Departments of Physics of the following 14 colleges. Of these, assistance received by 4 colleges already included purchase of books. The remaining 10 colleges have, therefore, been sanctioned a special grant of Rs. 10,000/- for the purchase of books @ Rs. 1,000/- per college:-

M.Sc. (Physics) Classes

1. Meerut College, Meerut.
2. N.R.E.C. College, Khurja.
3. D.A.V. College, Dehradun.
4. M.M.H. College, Ghaziabad.
5. D. Jain College, Baraut.
6. Jat Vedic College, Baraut.
7. S.D. College, Muzaffarnagar.
8. D.A.V. College, Muzaffarnagar.
9. S.S.V. College, Hapur.
10. N.A.S. College, Meerut.
11. J.V. Jain College, Saharanpur.
12. M.M. College, Modinagar.
13. M.S. College, Saharanpur.
14. Guru Ram Rai College, Dehradun.

- (6) Panjab University - Centre of Advanced Study in Mathematics - Increase in the number of teachers under Teachers' Training Programme.

The Commission at its meeting held on 7th September, 1966 (Item No. 2(a)-19) approved continuance, during the Fourth Plan period, of the teachers' training programme at the Centres of Advanced Study in Mathematics at the Universities of Panjab and Bombay. The scheme, as approved by the Commission during the Third Plan period, provided for training of six teachers at each of these Centres for a period of one academic year.

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Subsequently in 1967-68, the Panjab University stated that the teachers' training scheme had proved useful and proposed that the number of places available be raised from six to ten for the Fourth Plan period, in order to accommodate more teachers. The proposal of the University has been accepted, subject to the condition that atleast 50% of teachers would be drawn from colleges affiliated to other universities.

- (7) Visit of Prof. S. Devons, F.R.S., Liverhulme Visiting Professor to Andhra University.

Professor S. Devons visited Delhi from 14th to 18th January, 1968. He visited the National Physical Laboratory as also the Department of Physics, Delhi University. The expenditure towards his air travel (Vishakhapatnam-Hyderabad-Delhi-Madras-Vishakhapatnam - Rs. 999/-) was met by the University Grants Commission and the British Council provided subsistence for the period of his stay in Delhi.

- (8) Provision of miscellaneous facilities in the Faculty of Technology and Engineering - M.S. University of Baroda.

The All India Council for Technical Education recommended provision of the following facilities at the M.S. University of Baroda at a total cost of Rs. 39,000/-

S.No.	Proposal	Approved Cost	UGC's 50% share
1)	Provision of Tentage Facility for field work in Surveying for students of Engineering Degree Courses.	Rs. 30,000	Rs. 15,000
ii)	Air Conditioning of Bitumen Laboratory.	9,000	4,500
Total		39,000	19,500

The recommendations of the A.I.C.T.E. have been accepted and the Commission's sanction amounting to Rs. 19,500 has been conveyed to the M.S. University of Baroda.

- (9) Bombay University - Additional grant for laboratory fittings and electric fixtures under the conversion scheme in the department of Chemical Technology.

On the recommendations of the A.I.C.T.E., the Commission approved of certain non-recurring and recurring grants for the conversion of 2 year B.Sc. (Tech.) into a 3-Year Course in the Department of Chemical Technology at Bombay University and inter-alia agreed to an expenditure of Rs. 2,52,700 for the construction of a building. (Item 2(a-6) dated 7th April, 1964). On the basis of certificates from the local P.W.D. estimates of Rs. 3,34,563/- were accepted. The All India Council for Technical Education has recommended a further expenditure of Rs. 20,300/- for special laboratory fittings and electric fixtures for the building. The recommendation of the A.I.C.T.E. has been accepted, thus raising the total cost on the building to Rs. 3,54,863/- (U.G.C.'s share Rs. 1,77,432).

(84)

- (10) Acceptance of different items under the Indo-Bulgarian Cultural Exchange Programme 1967-69 received from the Ministry of Education for implementation by the University Grants Commission.

The following items under the Indo-Bulgarian Cultural Exchange Programme - 1967-69 have been accepted :

- Item No.9 : The Indian side will send and Bulgarian side will receive one Professor/Scholar for a period of one month during 1968.
- Item No.10 : Bulgarian side will send and Indian side will receive one Professor/Scholar for a period of one month in 1968.
- (11) Celebration of International Cooperation Year in the field of Education and Culture - National Essay Competition.

The Commission had decided to organise a national essay competition for students at the postgraduate and under-graduate levels, in connection with the celebration of International Cooperation Year in the fields of Education and Culture. The essay was to be in English on any one of the following subjects:

- (1) U.N. and maintenance of peace.
- (2) U.N. and the world food problem.
- (3) International Cooperation in Science and Education.
- (4) Role of U.N. in Social and Economic development of developing countries.
- (5) U.N. and International Culture Programmes.

The following three prizes have been awarded to the first three entries at the two levels;

Postgraduate

Rs. 1500/-
Rs. 1000/-
Rs. 750/-

Undergraduate

Rs. 1000/-
Rs. 750/-
Rs. 500/-

The Commission received 17 essays each for the postgraduate and undergraduate levels on the basis of a competition organised by the universities. The essays for the national competition have been evaluated and the following prizes awarded:

Postgraduate Students

1. First Prize Rs. 1500/- Shri R.M. Prabhu, Karnatak University
2. Second Prize Rs. 1000/- Shri Sanjaye Khettry, Calcutta University.

Undergraduate Students

1. First Prize Rs. 1000/- Shri V.S. Nadigar, Karnatak University.
2. Second Prize Rs. 750/- Shri K. Niranjan, Osmania University.
3. Third Prize Rs. 500/- Shri K. Chandra Sekhara, Madurai University.

- (12) Indian School of International Studies - Nomination of Vice-Chancellor on the Board of Governors of the -

The following Vice-Chancellors had been nominated by the University Grants Commission on the Board of Governors of Indian School of International Studies, New Delhi?

1. Nawab Ali Yavar Jung Vice-Chancellor,
Aligarh Muslim University.
2. Shri R.K. Nehru Vice-Chancellor,
Allahabad University.
3. Dr. D.S. Reddi Vice-Chancellor,
Osmania University.
4. Prof. M.V. Mathur Vice-Chancellor,
Rajasthan University.
5. Shri I.J. Patel Vice-Chancellor,
Sardar Patel University.

Consequent upon the resignation of Nawab Ali Yavar Jung from membership of the Board, Prof. A. Aleem, Vice-Chancellor, Aligarh Muslim University, has been nominated on the Board.

- (13) Indian Institute of Science, Bangalore -
Fixation of block grant for the period
1966-67 to 1970-71.

The Government of India, Ministry of Education had appointed a committee to determine the block grant payable to the Indian Institute of Science, Bangalore for the quinquennium 1966-71. The report of the Committee was placed before the Commission at its meeting in February 1967 (item No. 11). The Ministry of Education have now sanctioned the payment of a block grant of Rs. 112.00 lakhs per year to the Institute for meeting its maintenance expenditure during the three-year period 1968-69 to 1970-71. It had been stipulated that a provision of Rs. 19 lakhs p.a. provided for the block grant for scholarships and fellowships should not be diverted to any other items of report.

- (14) Extension of Award under the scheme of
'Utilisation of the Services of Retired Teachers'.

On the recommendation of the university/college concerned, eighteen retired teachers (as per Appendix I) who are working under the scheme, have been granted extension upto the period noted against their names.

- (15) Award of Junior Research Fellowship in
Humanities and Social Sciences to Shri Lalan
Prasad Singh.

The application of Shri Lalan Prasad Singh for an award of Research Fellowship in Philosophy at Ranchi University was referred to Prof. G.C. Pande, Head of the Department of History and Indian Culture, Rajasthan University, Jaipur. On the recommendations of Prof. Pande and the Vice-Chancellor, Ranchi University, Shri L.P. Singh has been awarded a Junior Research Fellowship of the value of Rs. 300/- p.m. during 1967-68 for the research project entitled "Tantra - Its mystic and Scientific Basis". This award is in addition to 77 Junior Fellowships during 1967-68 (second award) in Science and Humanities and Social Sciences.

awarded

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(16) Research Fellowships in Humanities, Social Sciences and Engineering and Technology - Extension of tenure beyond three years.

On the recommendations of the Supervisor and Head of the Department/Institution concerned, the tenure of the following two fellows has been extended beyond three years as indicated against their names:

S.No.	Name	Period of extension	Date of joining the fellowship	Date upto which the fellowship has been extended.
1.	Sh. Mohd. Shakeel Ahmed Siddiqui, Jr. Research Fellow in Persian (value of Rs. 300/- p.m.) Lucknow University.	Six months with effect from 1.2.1968	1.2.1965	31.7.1968
2.	Sh. B.K. Razdan, Research Fellow in Pharmacy (value of Rs. 400/- p.m.), Panjab University.	Six months with effect from 18.1.1968.	18.1.1965	17.7.1968

(17) Delhi University - Revision of scales of pay of Library Attendants.

At the suggestion of the Delhi University it has been agreed to revise the scales of pay of Library Attendants from Rs. 75-1-85-EB-2-95 to Rs. 80-1-85-2-95-EB-3-110. It has also been agreed to provide for a scale of Rs. 95-3-128-EB-3-131-4-155 for senior library attendants. The University has been permitted to provide upto 50% of the existing posts of library attendant in the senior scale. The above revision is subject to the provision that the qualifications for recruitment to these posts will be the same as prescribed for corresponding posts in the U.G.C. and the University would keep them in view while giving the revised scales. The revised scales would be effective from 1st February, 1968. The benefit of the revised scales would also be extended to the Library Attendants in the colleges affiliated to the Delhi University which are receiving maintenance grants from the Commission.

(18) Delhi University Constituent Colleges - Bursar's Allowance for the "Evening Classes".

In the light of the recommendation of the Committee appointed by the Commission to consider the question of revision of the basis of maintenance grants to non-Government colleges affiliated to the Delhi University, which had been accepted by the Commission at its meeting held on the 3rd May, 1967 (vide item No. 27), the rate of Bursar's allowance in the Day Classes of the Delhi Colleges receiving maintenance grants from University Grants Commission had been enhanced from Rs. 50/- p.m. to Rs. 100/- p.m. with effect from 1.4.1967. The Delhi University made a reference that as the volume of work that the Bursars of the Evening Classes of the colleges are required to do and the responsibilities they are called upon to hold are in no way less than those of the Bursars of Day Classes, the benefit of increased rate of allowance (from Rs. 50/- p.m. to Rs. 100/- p.m.) may be allowed to the Bursars of the Evening Classes also. The proposal of the University has been accepted with effect from 1.2.1968.

- (19) Lucknow University - Naming of Men's Hostel constructed with the financial assistance from the University Grants Commission as "Lal Bahadur Shastri Hall".

The University Grants Commission at its meeting held on the 7th April, 1965 considered the report of the Committee set up by the Commission regarding naming of buildings constructed with the assistance of the Commission and accepted the recommendations of the Committee in this behalf which is reproduced below:

- (i) Ordinarily, the buildings of the teaching departments, laboratories should not be named after individuals. The library buildings, hostels and colleges could be named after persons of outstanding eminence in the field of teaching, research, scholarship and public service whose life and work would be a source of inspiration to the younger generation, provided that no building shall be named after a living person.
- (ii) The proposals for naming University buildings should emanate from the Syndicate or the Government and be subject to the concurrence of the University Grants Commission.
- (iii) No educational building should be named after Mahatma Gandhi and Jawahar Lal Nehru unless the purpose is commensurate with their eminence.

The Lucknow University approached the University Grants Commission with a proposal to name the men's hostel constructed with the financial assistance from the Commission as "Lal Bahadur Shastri Hall".

The above proposal of the Lucknow University has been accepted and the University informed accordingly.

- (20) Arrears of Dearness Relief to the employees of the University Grants Commission Department Canteen.

The Ministry of Home Affairs, Government of India, in their Office Memo. No. 5/19/65-Welfare dated 31.1.1966 conveyed the decision of the General Advisory Committee for canteens to the payment of Dearness Relief with effect from 1.1.1966 to the staff who may be employed in Departmental/Co-operative Canteens at the rates mentioned below:

<u>Basic Pay</u>	<u>Dearness Relief</u>
Upto Rs.100/-p.m.	Rs.17.50
Rs.101/- to Rs.200/-p.m.	Rs.20.50
Above Rs.200/- p.m.	Rs.22.50

The above rates were made applicable to the staff employed in the UGC Departmental Canteen with effect from 1.6.1966 as per the decision of the UGC Departmental ^{Canteen} Managing Committee taken at its meeting held on 20.5.1966.

The UGC Departmental Canteen Committee, at its meeting held on 17.7.1967 has requested that the payment of Dearness Relief may be given effect to from 1.1.1966 as originally recommended by the Ministry of Home Affairs and the arrears of Dearness Relief from 1.1.1966 to 1966 may be paid to the employees of the canteen.

The above proposal has been accepted and it has been decided to pay the arrears of Dearness Relief to the Canteen staff for the period from 1.1.1966 to 31.5.1966. The extra expenditure involved in this decision will be shared by the Canteen and the Commission in the ratio of 1: 3 as prescribed in the Government Memorandum referred to above.

- (21) Transfer of G.P.Fund Account to the U.G.C. Contributory Provident Fund.

The Chairman has sanctioned the transfer of G.P.Fund Account of Shri Om Parkash, Jr. Stenographer from his previous office to his C.P.Fund Account in the University Grants Commission under Rule 4(3) of the U.G.C.C.P.Fund Rules, 1956. Accordingly, his account amounting to Rs. 30/- has been transferred and credited to his C.P.Fund Account in U.G.C. in the month of November, 1967.

- (22) Assistance to Colleges.

The proposals of the following colleges for development grants have been approved in accordance with the normal rules.

S.No.	Name of the College	Purpose	Approved cost	U.G.C. Share
1.	Kerala Varma College, Trichur (Kerala University).	Construction of Chemistry Laboratory.	67,300	44,860
2.	St. Therasas College, Eluru (Andhra University).	Construction of Laboratory buildings.	2,90,000	1,50,000
3.	St. Alberts College, Ernakulam (Kerala)	Purchase of Science Equipment.	60,000	45,000
4.	Bangur College, Didwana (Rajasthan University)	Construction of Library building.	1,49,500	99,600
5.	Adoni Arts & Science College, Adoni (Sri Venkateswara University).	Purchase of Science equipment and books.	30,000	22,500
6.	Khalsa College for Women Sidhwan-Khurd (Panjab University).	Construction of non-resident students centre.	51,728	35,000
7.	Bhadrak College, Bhadrak (Utkal University)	Construction of staff quarters.	1,21,728	57,600
8.	Farook College, Farook, (Kerala University).	Construction of Women's Hostel.	1,96,000	1,41,000
9.	Arts & Science College, Arvi (Nagpur University)	Construction of Teachers' Hostel.	1,12,090	68,655
10.	M.L.K. Degree College, Balrampur (Gorakhpur University).	Purchase of Science equipment.	27,000	13,500
11.	Katwa College, Katwa. (Burdwan University).	Purchase of Lab. equipment furniture and books.	70,000	51,250

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S.No.	Name of the College	Purpose	Approved Cost	U.G.C. Share
12.	Sibsagar College, Joysagar (Dibrugarh University).	Construction of Teachers' Hostel.	91,500	51,673
13.	St. Thomas College, Kozhencherry (Kerala University).	Construction of Lab. building & purchase of furniture.	2,90,000	1,50,000
14.	Wellington College, Sangli (Poona University).	Construction of Teachers' Hostel	65,270	42,050
15.	Sri Bhuvanendra College, Karkala (Mysore University).	Construction of Lab. Building.	1,21,550	81,000
16.	K.L.E. Society's College of Arts & Science, Bangalore,	Construction of Lab. building.	1,80,600	1,20,400
17.	A.S. College, Bikram-Ganj, (Magadh University).	Purchase of books, Lab. equipment & furniture.	45,000	32,500
18.	Hislop College, Nagpur	Purchase of Science equipment.	61,357	46,000
19.	St. Francis de Sales' College, Nagpur.	Purchase of Lab. equipment.	49,076	36,807
20.	Gokhale Centenary College, Ankola (Karnatak University).	Construction of Lab. building.	1,25,085	83,390
<u>CALCUTTA UNIVERSITY</u>		<u>GRANTS FOR CHALKBOARDS</u>		
21.	Girls College, Howrah	-do-	1,000	1,000
22.	City College of Commerce, Calcutta	-do-	1,225	1,000
23.	Pakirchand College, Diamond Harbour.	-do-	1,000	1,000
24.	Shibpur Dinabandu Institute, Shibpur.	-do-	1,000	1,000
<u>DIBRUGARH UNIVERSITY</u>				
25.	Debraj Raj College, Golaghat.	-do-	1,100	1,000
26.	North Lakhimpur College, North Lakhimpur.	-do-	1,000	1,000
<u>GAUHATI UNIVERSITY</u>				
27.	Cotton College, Gauhati	-do-	1,200	1,000
28.	Gurucharan College, Silchar	-do-	1,330	1,000
<u>KERALA UNIVERSITY</u>				
29.	Guruvayurappan College, Kozhikodi.	-do-	990	990
30.	Providence Women's College, Kozhikodi.	-do-	1,060	1,000
<u>LUCKNOW UNIVERSITY</u>				
31.	Kanya Kubja Degree College, Lucknow.	-do-	2,000	1,000
32.	D.A.V. College, Lucknow.	-do-	1,200	1,000

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S.No.	Name of the College	Purpose	Approved Cost.	U.G.C. share
<u>MADURAI UNIVERSITY</u>				
33.	G.N.T.Arts College, Dindigul	Improvement of Chalk-boards.	1,025	1,000
34.	St. John's College, Palayamakottai	--do--	1,012	1,000
35.	Christ College, Marthandam	--do--	1,800	1,000
36.	Sri Pramkalyani College, Alw-arkurichi	--do--	1,000	1,000
37.	Alagappa College, Karikudi	--do--	1,000	1,000
38.	A.N.Janki Amal College, Sezakasi	--do--	1,190	1,000
39.	St. Mary's College, Tuticorin.	--do--	1,050	1,000
40.	R.D.M.College, Sivaganga	--do--	1,181	1,000
41.	Laxmipuram College, Nellor	--do--	980	980
42.	S.V.N.College, Madurai	--do--	1,044	1,000
43.	Sarah Tucker College, Palsyamkottai	--do--	1,020	1,000
<u>MEERUT UNIVERSITY</u>				
44.	N.A.S.College, Meerut,	--do--	1,020	1,000
<u>MYSORE UNIVERSITY</u>				
45.	St. Aloysius College, Mangalore.	--do--	1,090	1,000
46.	Sri Bhuvanandra College, Karkala.	--do--	1,500	1,000
47.	Sarda Vilas College, Mysore.	--do--	1,160	1,000
<u>NAGPUR UNIVERSITY</u>				
48.	Sitabai Arts College, Akola	--do--	1,200	1,000
49.	St. Francis de Sales College, Nagpur.	--do--	1,100	1,000
50.	L.R.T.College of Commerce, Akola	--do--	1,200	1,000
51.	N.M.D.Mahavidyalaya of Arts & Commerce, Gondia	--do--	1,200	1,000
52.	Jasabhai Muljibhai Patel College, Bhandara	--do--	750	750
<u>NORTH BENGAL UNIVERSITY</u>				
53.	Alipur Duar College, Alipurduar	--do--	780	780
<u>OSMANIA UNIVERSITY</u>				
54.	Vanita Mahavidyalaya, Hyderabad	--do--	1,500	1,000
55.	Evening College of Arts & Commerce, Hyderabad.	--do--	800	800
<u>PANJAB UNIVERSITY</u>				
56.	Arya College, Ludhiana	--do--	2,000	1,000
57.	Vaish College, Rohtak	--do--	1,000	1,000
58.	G.G.N.Khalsa College, Ludhiana	--do--	1,125	1,000
59.	Ahir College, Rewari	--do--	1,200	1,000
60.	Lyalpur Khalsa College, Jullundur	--do--	1,200	1,000
61.	Rajinder Govt.College, Bhatinda	--do--	2,500	1,000
<u>POONA UNIVERSITY</u>				
62.	C.E.S.Arts Science & Commerce College, Chalisgaon.	--do--	2,200	1,000
63.	M.S.G.Arts Science & Commerce, College, Malegaon.	--do--	3,000	1,000
64.	A.E.S.Baramati College Baramati	--do--	1,440	1,000
65.	S.S.V.P.S.Science College, Dhulia	--do--	975	975

S.No.	Name of the College	Purpose	Approved Cost	U.G.C. Share
<u>RAJASTHAN UNIVERSITY</u>				
66.	Seth G.S.Podar College, Nawalgarh.	Improvement of Chalkboards	1,000	1,000
67.	S.G.N.Khalsa College, Sriganganagar.	--do--	1,200	1,000
68.	Maharaja's Collège, Jaipur.	--do--	1,000	1,000
<u>RANCHI UNIVERSITY</u>				
69.	St. Columbas College, Hazaribagh.	--do--	963	963
<u>SHIVAJI UNIVERSITY</u>				
70.	R.P.Gogate College, Ratnagiri.	--do--	1,050	1,000
71.	Balwant College, Vita.	--do--	1,200	1,000
72.	Sri Panchim Khemraj Mahavidyalaya, Sawantwadi.	--do--	1,050	1,000
73.	Chintamanrao College of Commerce, Sangli.	--do--	1,000	1,000
74.	Chhatrapati Shivaji College, Camp-Satara.	--do--	3,150	1,000
75.	Science College, Camp-Satara.	--do--	2,700	1,000

Extension in the tenure of award granted to the awardees under the scheme of 'Utilisation of Services of Retired Teachers'.

S.No.	Name of the awardee and Centre of Work.	Subject	Period of extension	
			from	to
1.	Shri R.C.Advani, Baroda University.	Engineering	16.1.1968	15.1.1969
2.	Prof.K.R.Alur, University of Agricultural Science, Bangalore.	Agriculture.	4.1.1968	3.1.1969
3.	Shri T.K.Devassia, St.Xavier's College, Trivandrum.	Malayalam	1.2.1968	31.1.1970
4.	Shri P.V.Rama Iyer, Shree Kerala Varma College, Trichur.	Sanskrit	7.3.1968	6.3.1970
5.	Shri D.C.Bhattacharya, Sanskrit College, Calcutta.	Sanskrit	1.2.1968	31.1.1970
6.	Dr.T.M.Oza, M.N.College, Vismagar.	Chemistry	18.2.1968	17.2.1969
7.	Dr.C.N.Menon, Kashi Vidyapith, Varanasi.	English	14.1.1968	13.1.1969
8.	Dr.S.S.Kulshreshtha, Multanmal Modi College, Modinagar.	Commerce	15.2.1968	14.2.1970
9.	Shri Neelakanta Sastry, Kerala University.	Sanskrit	1.2.1968	31.1.1970
10.	Shri K.L.Ranjanam, Osmania University	Telugu	8.2.1968	7.2.1970
11.	Shri Bodh Raj Sharma, Panjab University.	Political Science	11.2.1968	31.3.1968
12.	Dr.P.R.J.Naidu, Mysore University	Geology	28.2.1968	27.2.1970
13.	Shri M.B.V.Narasinga Rao, Andhra University.	Agriculture	17.1.1968	30.4.1968
14.	Smt.E.A.Gonzalves, St.Xavier's College, Bombay.	Botany	31.1.1968	30.1.1970
15.	Prof.S.K.Roy, Baroda University.	Engineering	1.2.1968	31.1.1970
16.	Shri O.K.Nambiar, Bangalore University.	English	14.2.1968	13.2.1970
17.	Shri N.A.Shastry, Nagpur University.	Mathematics	2.2.1968	1.2.1970
18.	Dr.R.P.Singh, Rajasthan University.	Philosophy	1.2.1968	31.1.1970

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UNIVERSITY GRANTS COMMISSION

Meetings
Dated 6th March, 1968.

Item No. 2(b): To receive items of information.

- (1) Publication of Audit Reports on the accounts of the Central Universities in the Gazette of India.

The Acts of incorporation of the Central Universities inter-alia provide that:

- (i) the account of the Universities shall once at least in every year and at an interval of not more than 15 months be audited by the Comptroller and Auditor General of India; and
- (ii) the accounts, when audited shall be published in the Gazette of India, and a copy of the accounts together with the audit report shall be submitted by the Universities to the Visitor.

At present the audited accounts and not the audit reports are being published in the Gazette of India by the Central Universities. The Government of India, Ministry of Education in consultation with the Ministry of Law and the Comptroller and Auditor General have decided that in future, in compliance with the Statutory provision, the Central Universities may arrange to publish their audit reports also with their audited accounts in the Gazette of India.

- (2) Report made by Mr. A. J. Grayson of the British Forestry Commission in connection with his visit to the Centre of Advanced Study in Economics, University of Poona.

Mr. A. J. Grayson, Forest Economist, British Forestry Commission, U.K. visited the Centre of Advanced Study in Economics, University of Poona, Poona under the Programme of British Assistance to the Centre of Advanced Study in Indian Universities during the period 4th October, 1967 to 2nd January, 1968. At the conclusion of his visit Mr. Grayson has made a report, the important extracts from which are enclosed as Annexure I.

- (3) Allocation of Unesco Coupons worth \$ 20,000 to the University Grants Commission by the Indian National Commission for Cooperation with Unesco, earmarked for utilisation by Universities and colleges.

The Indian National Commission for Cooperation with Unesco, Ministry of Education, Government of India has intimated that a further allocation of Unesco Coupons worth \$ 20,000 would be available for Universities and Colleges and has requested that the requirements of the universities and colleges duly screened by the University Grants Commission may be recommended to the Indian National Commission for Cooperation with Unesco for allotment and issue of the Unesco Coupons. The Universities have been requested to send their proposals in this regard. It may be mentioned that the Unesco coupons made available to the U.G.C. so far were worth \$ 28,000.

- (14)
- (4) Report made by Prof. (Miss) Lilian Hawker, Professor of Botany, The Bristol University, U.K. in connection with her visit to the Centre of Advanced Study in Botany, University of Madras.

Prof. (Miss) Lilian Hawker, Professor of Botany, The Bristol University, U.K. came to India, as a visitor to the Centre of Advanced Study in Botany, University of Madras, under the programme of British Assistance to the Centres of Advanced Study. She visited the Centre from 12.1.1968 to 31.1.1968. At the conclusion of her visit, she made an interim report about her impressions of the Centre. A detailed report relating to collaboration envisaged will be sent by her later. A copy of the interim report is placed as Annexure I.

The text of a letter written by Prof. Hawker to Dr. D. Shankar Narayan, Joint Secretary, UGC on her return to U.K. is reproduced below:-

"Now that I am back in England after my recent visit to India I am writing to ask you to convey my thanks to the University Grants Commission for their generous support enabling me to make this visit.

I had a most interesting time at the C.A.S. in Madras and had the opportunity to discuss the work there with Professor Sadasivan and individually with his staff and postgraduate students. I was deeply impressed with the high quality of the work of the Centre and with its value both to India agriculture and to fundamental plant science. I learnt much of interest and am hoping that a collaboration may develop between Madras C.A.S. and this Department to our mutual advantage. I shall do all that I can at this end to support Sadasivan's application for aid under the Colombo Plan.

On Tuesday I had the opportunity of discussing my visit with Professor J.E. Harris, our Vice-Chancellor, and was able to give him your message. He was deeply interested in my report and sympathetic to our suggested closer association."

Report on Assignment to the Gokhale Institute of Politics
and Economics, Poona, with suggestions for Further Work

by A.J. Grayson

(Forest Economist, Forestry Commission of Great Britain)

General

1. This assignment covered the period from October 4th 1967 to January 2nd 1968. It was arranged through the Commonwealth Educational Co-operation Scheme by the British Council and the Ministry of Overseas Development, the Forestry Commission having agreed to my secondment for an initial period of 3 months. I am grateful to these bodies for organising my visit, and to Professor V.M. Dandekar, Director of the Gokhale Institute, for the original invitation.
2. At Poona, I joined Mr. G.S. Chandras, a Divisional Forest Officer on 3 years' deputation from the Forest Department of Maharashtra who has the job of laying the foundations of studies in forest economics. I should like to record my deep gratitude to him for his patience and unfailing kindness in introducing me not only to the extremely varied and perplexing conditions and problems of Indian forestry, but also to Indian life and people generally.
3. I cannot speak too highly of the generous spirit in which I found discussions were held and help was given by the staff of Gokhale Institute. The atmosphere is a most stimulating one and could not be bettered from the point of view of freedom of discussion, which is such a valuable quality in encouraging worthwhile research. The happy working conditions are without doubt due to the enthusiasm of the Director, and I am most grateful to Professor Dandekar for the opportunity to work in his Institute. The Institute has a wide range of people with special knowledge and experience in input-output analysis. Programming is undertaken in the statistics section which uses computer facilities at Bombay.
4. In company with Mr. Chandras I met a large number of people connected with forestry in five states, namely - Maharashtra, Madras, Mysore, Kerala and Madhya Pradesh, as well as in Delhi and Dehra Dun, U.P. I should like to record my gratitude to all the officers concerned for helping to make all these visits informative, enjoyable and comfortable. Their names are listed in Appendix I. These field trips enabled me to see the situation on the ground and to hear from the officers most immediately concerned, their views on the real problems of Indian foresters and, to a smaller extent, those of land-use planners.

The Institutional Background to Forestry

5. Despite the apparently indissoluble nature of the problems identified by foresters in India, I am not convinced that progress is so dependent on improvements in the land use arrangements as forest managers appear to believe. One major stumbling block appears to me to lie in the attitude taken by Forest Departments to the areal extent of land they manage. A fuller discussion of this issue would require a detailed analysis of the background to the National Forest Policy enunciated in 1952. But the fact that such emphasis is laid on the desirability of raising the area devoted to forests (to one-third of the land surface) both in the policy statement and in almost all forestry discussions on policy suggests that the value of forestry to India may be all too readily confused with the achievement of this aim at some distant, but unstated, future date. This is of course a controversial point and it would be wrong to ignore

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the arguments of friends in the Forest Departments who point to the need for a combined view of land use and forest management whenever forestry is being discussed. As has been emphasised to me in discussions with the Inspector General of Forests and many senior forest officers, the very important institutional factors which bear on land use the questions of forestry investment in India constitute strong barriers to the achievement of foresters' aims. Indeed when one also takes into account those institutional features which characterise the working of government departments, the whole nexus of obstacles hardly appears to encourage forest managers in attempting very progressive measures, although of course the fight for protection of the existing forest, on one front or another, continues unabated. One major concern of foresters, namely that of the protection offered to the soil by forest cover and the effects on run-off, introduces a further difficulty. For it is by no means clear that all the claims made for forest cover are supportable, and where they are that the costs incurred through forestry measures are justifiable. Nowadays, the fact that a claim cannot be substantiated in quantitative, and especially in value, terms is a marked disadvantage. On the other hand the likelihood is that adequate control of an alternative type of land use - whether range management or arable cultivation - would usually prove to be impossible once farmers were allowed entry. Rights to grazing, wood and minor forest products are very widespread, and these severely circumscribe the forester's freedom of action.

6. The reason for noting some of these points is to emphasise the special difficulties, primarily of an institutional nature, that affect Indian forestry. These factors naturally influence one in commenting on worthwhile areas of economic research.

Suggested Areas for Studies in Forest Economics

7. In the first place we may consider studies of the demand for the raw materials produced by the forest. There are difficulties of an institutional kind here also. For example, consumers' loyalties to certain species of timber for sawing and certain products used in ayurvedic medicine may change, and judgments must be made about the possible rates of change in these tastes. The fact that many sawmillers and furniture makers own small enterprises and that these small-scale industries are not especially well covered statistically creates problems of estimation. The possibilities of substitution of or by firewood for other sources of energy also call for study. Nevertheless the demand for wood and minor forest produce is a hopeful and valuable field for investigation and it is strongly urged that such studies should be taken up by the Gokhale Institute, using the best available econometric techniques. Contact should be maintained with the Forest Research Institute and the office of the Inspector General of Forests, with the Planning Commission, the FAO/SF/GOI Pre-investment Survey of Forest Resources, the National Council for Applied Economic Research and other bodies who have undertaken, or are undertaking, research on the consumption of wood and substitutes. The necessary data are often lacking and the National Sample Survey might be asked to fill this gap. The international trade and inter-State trade aspects also call for attention. The staff of the Gokhale Institute are again well placed to develop such studies and to analyse the effects of such policies as import-substitution, a field in which work would be of great international interest. Input-output analysis, on which much work is being done at the Institute, should be helpful in this connection.

8. The supply side of forestry is moderately well-served with statistics as a result of working plans drawn up by the forest departments of the States and the accounts, etc., they produce and also as a result of work by Resources. But, as noted, institutional complications in the realm of land use generate considerable problems. It is suggested that efforts be made on two fronts. The first concerns internal matters of management where difficulties of financing new investment or re-investment in forest crops deserve special attention. Investment analyses should be made and the

economic effects of the current administrative practices evaluated (for example, the losses incurred by fluctuating annual budget provisions). Secondly, on the more general land use issue, economic studies might be carried out in order to assess the effects of current political, administrative and traditional practices. Such studies would no doubt throw into sharp relief the problems of animal husbandry and the general lack of knowledge of range management. Studies of a more socio-political nature are most desirable to support the economic analyses because without an understanding of the motivations of the various interested parties, little progress towards the desired socio-economic goal (which themselves need clarification) seems possible.

9. This whole field of institutional barriers to economic progress so bristles with difficulties that it might well be considered desirable to concentrate on the more "internal" aspects of forest management. Certainly in the short time available to me, I felt that no useful purpose would be served by any attempts I might make in this area. Accordingly I have concentrated attention on one major topic of forest management planning, namely the rational choice of cutting and regeneration plans, assuming many of the institutional difficulties away. Further work on the computer programming of this problem is to be done in the Gokhale Institute. Two papers (one with Mr. Chandras as co-author) on this topic have been published (Planning the cut from forests, by A.J.G., Indian Jnl. of Agric. Econ., Vol. XXII, No. 4 Dec. 1967; Yield Planning for the conversion of forests to plantations, with special reference to India, by G.S. Chandras and A.J.G. Ninth Commonwealth Forestry Conference).

10. But there is no point in taking an ostrich-like attitude on the highly important institutional aspects of land management, indeed it would really be a dereliction of duty to disregard them. One method of studying the problem is to take certain real-life situations and to analyse why forest management, including the formation of new forest plantations and grazing blocks, in some places succeeds and in others does not. The answer will doubtless turn out to be different from one part of the country to another, but even if ways and means of succeeding in rational forestry aims can be established by certain institutional and technical arrangements in one place at a time this will constitute an important advance. The legal, social and economic aspects of improved grassland management and cultivation of fuelwood plantations by the village panchayats or by groups of farmers suggest themselves as useful lines for study.

11. Publication of research results is important, for it is vital to influence and educate a wide variety of groups. Dubious statistics and wishful thoughts are not what are wanted but instead hard facts and descriptions of practical and practicable solutions. Such studies may indicate that qualifications of the existing forest policy are necessary; if so this is all to the good if it makes possible the enhancement of forestry's contribution to economic and social progress. Close liaison with the office of the Inspector General of Forests, the Forest Research Institute and the Planning Commission is desirable. All three bodies are in the process of appointing new or additional economists to what could be posts of great importance to the future progress of forestry. It would be useful if informal exchanges could take place on the division of labour among the Gokhale Institute, these institutions and any University Departments that may start work in forest economics.

Conclusions

12. The Gokhale Institute provides an excellent environment for study on forest economics - a field of research which has, so far been almost totally neglected in India.

13. While at the Institute I started work on one particular internal aspect of forest management, namely yield planning. Further work on the building of a mathematical model on this problem is to be undertaken by the Gokhale Institute in order to provide more general solutions.

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14. The Institute is in a good position to undertake more research on the future demand for forest products at various stages of processing.

15. Production possibilities in forestry are severely circumscribed by institutional factors arising out of pressures for fuel, fodder and food crops. It is pointless to advance grandiose schemes for investment in new forest stands (whether afforestation of bare land or replanting of former tree-clad land) unless the future protection of the new assets is assured. This means that emphasis should be directed towards analysis of the institutional difficulties affecting forestry and new investment in particular. The economics of such schemes are interesting and should be studied with the aid of cost-benefit analysis, but the effort devoted to such studies should be kept in step with the practical possibilities of implementing their findings.

16. Liaison should be maintained with other institutions, especially the departments of government concerned with forestry, land use and planning.

New Delhi 15th January, 1968.

Sd/-
(A.J.Grayson)

Distribution

University Grants Commission, New Delhi
Professor V.M.Dandekar, Gokhale Institute, Poona
Director -General, Forestry, Commission, London.
Inspector General of Forests, New Delhi.
Professor D.R.Gadgil, Planning Commission, New Delhi
Forestry Adviser, Ministry of Overseas Development, London
Mr.T.S.Bell, U.K.High Commission, New Delhi.
Mr.J.C.Westoby, Forestry and Forest Products Division, F.A.O., Rome
Dr.R.E.Ockenden, British Council, London.
Dr.G.R.G.Hambly, British Council, New Delhi.
Mr.F.Nissen, British Council, Bombay.
Mr.G.S.Chandras, Gokhale Institute, Poona.

PEOPLE AND PLACES VISITED

- A. People, Institutions and Offices, in order of dates when visited.
(This list excludes the names of the many colleagues with whom I discussed economic aspects of forestry at the Gokhale Institute; it also excludes the names of those Indian forest officers whom I met at the Commonwealth Forestry Conference which I attended as a United Kingdom delegate immediately after my period of secondment to the Gokhale Institute ended).

Mr. V. V. Damle, Divisional Forest Officer (D.F.O.) Working Plans, Kolaba Division, Maharashtra.

Mr. J. G. Thosre, Conservator Working Plans, Maharashtra.

Mr. S. S. Buit, Chief Conservator of Forests, Maharashtra.

Mr. S. G. Bhogle, Additional Chief Conservator of Forests, Maharashtra.

Mr. R. V. Satpute, Joint Director of Agriculture (Soil Conservation), Maharashtra.

Mr. Brahme, Landscape architect, Poona.

Mr. L. G. Lagu, Retired D.F.O., Ali Bag.

Mr. Gole and Dr. A. S. Apte, respectively Director and Senior Research Officer, Central Power and Water Commission Research Station, Khadakwasla.

Dr. G. B. Deodikar and Dr. V. D. Vartak, respectively Director and Botanist, Maharashtra Association for the Cultivation of Science, Poona.

Professor T. S. Mahabele, Botany Deptt., University of Poona

Mr. Bhogaonkar, farmer and village leader, Kolhapur District

Dr. G. S. Pendse, Director, Central Drug Research Institute, Poona.

Prof. J. H. Balwani, Professor of Pharmacology, Poona

Prof. P. V. Sohoni, Geology Deptt. Ferguson College, Poona.

Mr. Bakre, Timber Merchant, Poona.

Mr. M. J. Mascarenhas, Additional Technical Asst. to Chief Conservator of Forests, Mysore State.

Territorial forest staff, Ootacamund and Coonor

Mr. Peters and Mr. K. Shanmuganathan, respectively Director and Instructor, Southern Forest Rangers College, Coimbatore.

Mr. Bhojashetty, Conservator of Forests, Madras State.

Mr. Narayanpillai, Dr. F. N. Nair, Mr. Mukundan, respectively Chief Conservator, of Forests and Silviculturist, Kerala, and D.F.O. Trivandrum.

Mr. Diwakaran, D.F.O. Teermade, Kerala

Mr. R. D. Joshi, Chief Conservator of Forests, Gujarat

Mr. K. P. Sagreiya, retired President Forest Research Institute, Dehra Dun

Mr. D. G. Sharma, Conservator of Forests, Jaipur

Mr. Solunki and Mr. Power, respectively D.F.O. Working Plans and territorial D.F.O., Mandla, M.P.

Mr. Chaturvedi, Asstt. Conservator of Forests, Jabalpur

Dr. Woods, Shikar agent, Jabalpur

Chairman and Secretary, Timber Merchants' Association, Jabalpur

Mr. Hari Singh, Inspector General of Forests, New Delhi

Mr. D. H. Kulkarni, Deputy I.G., New Delhi.

Mr. K. K. Nair, Secretary, Central Forestry Commission

Project Co-director and staff of the FAO/SF/GOI

Pre-investment survey of forest resources, New Delhi

Project Co-director and staff of the FAO/SF/GOI

Logging Training Project, Dehra Dun

Mr. T. N. Srivastava, President Forest Research Institute

Mr. I. M. Qureshi, Director of Forestry Research, Dehra Dun

Mr. K. Ramesh Rao, Wood anatomist, Dehra Dun

Mr. S. V. Venkataraman, Publications Officer, Dehra Dun

Prof. D. R. Gadgil, Deputy Chairman, Planning Commission, New Delhi

Dr. V. G. Bhatia, Director of Transport Research, Ministry of Transport, New Delhi.

Dr. L. C. Sharma, Planning Commission, New Delhi

Mr. P. Venkataramany, Ex-Editor, Indian Forester

Mr. Dabral, Forest Influences Section, Forest Research Institute

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B. Areas of Forestry Interest

1. Afforestation in the dry deciduous and thorn scrub zones, South of Poona.
2. Research plots and semi-evergreen forests of Mahabeshwar Plateau.
3. Moist deciduous forest in neighbourhood of Pen
4. Grasslands of Sinhgarh, Poona District and of Bhogaon, District Kolhapur.
5. Eucalyptus and wattle plantations, Ootacamund, Mysore.
6. Wet evergreen forest, Central Kerala
7. Teak and sal forests in central Madhya Pradesh
8. Oak and deodar, Mussoorie.
9. Rajpur catchment, Dehra Dun

C. Meetings attended.

1. Input - output seminar, Gokhale Institute
2. Seventh Indian Econometric Conference, Gokhale Institute
3. Annual Conference of the Indian Society of Agricultural Economics, Jabalpur.
4. (following my period of secondment to the Gokhale Institute)
9th Commonwealth Forestry Conference, New Delhi.

Report by Prof. Lilian Hawker on her
visit to the Centre of Advanced Study in
Botany, Madras January 12 - January 31, 1968.

The Centre for Advanced Studies, Department of Botany, University of Madras is of outstanding merit and has wide international recognition. The Director, Professor T.S. Sadasivan, is himself a leading expert in the study of soil fungi, wilt diseases and fungal toxins. His many students over the past 15 years have consolidated his work and made their own contribution to the advancement of the subject. The Director has made a wise choice of the best of these for appointment on the staff so that continuity of the Centre's work is assured for the foreseeable future.

During the past 20 days I have had the opportunity of talking to staff and postgraduate students and of discussing their work with them. Any University department would be proud to have such a group of dedicated and able research workers. Much of the work has a direct and immediate bearing on the control of disease in economic crops of the Madras area, but some is of a more fundamental nature directed to the elucidation of the relationship between host and parasite on a proper understanding of which the control of disease finally depends. Much of this work is of a highly original nature and at the "frontiers" of the subject. It is here that additional apparatus is urgently required if the work is to develop to full capacity. In addition the Director rightly wishes to undertake work on the many important virus diseases of plants in his area and some of the items asked for are in support of this new development and essential to it. Since Professor Sadasivan himself spent some time working with Sir F. Bawden at Rothamsted, England, he is well qualified to guide such programme, but in addition it is proposed to invite a specialist in the subject to visit the Department. The apparatus requested is the minimum required to start this project.

Since in this Centre, India has an institution with a world wide reputation any available financial support could hardly be better placed. I recommend that the request made by the Director should receive favourable consideration.

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated 6th March, 1968

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 7th February, 1968

P L A N

<u>Name of the University</u>	<u>Purpose</u>	<u>Grant released</u>
1.	2.	3.
1. Agra	Grant towards the scheme of Critical Edition of Sur Sagar in K.M. Institute of Hindi Studies and Linguistics approved during III Five year Plan.	2,500
	Purchase of library books and Journals (Humanities).	10,000
	Grant for holding the Seminar in Commerce at Meerut College, Meerut.	6,000
	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges at Agra College, Agra.	10,000
	<u>Affiliated Colleges.</u>	
Shri Varshneya College, Aligarh.	Development of Post-graduate studies in Humanities & Social Sciences.	5,000
K.R. Girl's Degree College, Mathura.	Expansion of Science Education.	2,000
C.L. Jain College, Firozabad.	- do -	5,000
Dayanand Arya Kanya Degree College, Moradabad.	- do -	6,466
Moti Ram Babu Ram Degree College, Haldwani.	- do -	24,000
A.K.P. Degree College, Khurja.	Financial assistance to teachers for research work in Humanities and Social Sciences.	250
Vardhaman College, Bijnor.	- do -	250
K.N. Govt. College, Gyanpur.	Extension in Fellowship tenure of Research Fellowships in Science.	764.52
St. John's College, Agra.	- do -	822.58
K.N. Govt. College, Gyanpur.	Contingency grant for Junior Research fellowships in Science.	500
D.S.B. Govt. College, Nainital.	Award of Junior Research Fellowships in Science.	2,074.19
- do -	- do -	2,141.94
Agra College, Agra.	Extension in fellowship tenure of Senior Research Fellowships in Humanities.	741.38
St. John's College, Agra.	Additional grant for Junior Research Fellowships in Humanities 1966-67.	300
Y.D. College, Lakhimpur Kheri.	Grant towards revision of Salary Scales of teachers as per II Plan Scales of pay.	290.48
Hindu College, Moradabad.	Development of Post-graduate deptt. of Physics.	10,000
St. John's College, Agra.	Development of Post-graduate deptt. of Physics.	28,000

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Agra Contd.

Sri Chitragupta Degree College, Mainpuri	Establishment of Text Book Library.	2,000
G.S.H. Degree College, Chandpur-Sian.	- do -	2,000
G.H.Hindu Girl's College, Moradabad.	- do -	1,000
St. John's College, Agra.	- do -	991.99
Govt. Degree College, Gopeshwar.	- do -	2,000
Smt. B.D. Jain Girl's Degree College, Agra Cantt.	- do -	2,000
K.R. Girl's College, Mathura.	- do -	1,500
Swami Sukhdevanand Collège, Shahjahanpur.	Establishment of Students-Aid-Fund.	1,500
S.M. College, Chandausi.	- do -	1,399
Shri Chitragupta Degree College, Mainpuri.	- do -	681
Multanimal Modi College, Modinagar.	- do -	1,538
Y.D. College, Lakhimpur-Kheri.	- do -	1,500
Ganjdundwara College, Ganjdundwara (Etah).	- do -	1,500
Moti Ram Babu Ram Degree College, Haldwani.	- do -	700
Barahsoni College, Aligarh.	- do -	3,000
B.N.V. Degree College, Rath Hamirpur.	- do -	1,500
Amar Singh College, Lakhaoti.	- do -	1,286
Total.		1,43,197.08

2. Aligarh Muslim University.	Grant towards the scheme of research project on "A study of working of Consumer's Co-operative stores in U.P. with special reference to Aligarh Distt."	1,500
	Advance Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
	- do -	2,161.29
	Recurring grant for staff and maintenance under the scheme of increase in intake in the College of Engg.	3,00,000
	Grant-in-aid for purchase of equipment due to increase in intake of the College of Engg. and Technology.	50,000
	Grant-in-aid for the construction of building for Civil Engg. under double intake scheme.	30,000
	Grant-in-aid for the construction of Cycle shed at the University Polytechnic.	10,000
	Purchase of equipment for the Jawahar Lal Nehru Medical College.	1,20,000
	Grant for development of Agricultural Farm.	56,585.41
	Grant for research work in Himalayan Geology.	4,600

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Aligarh Contd.

Award of Junior Research Fellowships
in Humanities and Social Sciences. 2,161.29
Payment of unassigned grant for
1966-67. 2,428.62

Total 5,91,597.90

3. Allahabad.

Financial assistance to teachers
for research work in Humanities
and Social Sciences and Sciences. 750
Award of Senior Research Fellow-
ships in Science. 2,435.48
Award of Junior Research Fellow-
ships in Science. 1,880.64
- do - 1,880.64
Contingency Grant for Junior
Research Fellowships in Science. 1,000
Extension in Fellowship tenure of
Senior Research fellowships in
Humanities. 1,258.06
- do - 1,483.87
Contingency grant for Senior Research
Fellowships in Humanities/Science. 1,000
Award of Junior Research Fellowships
in Humanities and Social Sciences. 2,132.26
Extension in Fellowship tenure of
Junior Research Fellowships in
Humanities. 1,250
Grant-in-aid for the development of
Scientific education and research. 12,000

Affiliated Colleges.

Ewing Christian College,
Allahabad.
G.M.P. Degree College,
Allahabad.

Basic grant for the purchase of
Library books. 2,500
- do - 2,500

Total. 32,070.95

4. Andhra.

Construction of Guest House. 5,000
Grant for organising a Summer Insti-
tute in Physics for College teachers. 10,000
- do - Chemistry. 10,000
Grant for organising a Summer Insti-
tute in Chemistry for teachers from
Higher Secondary School/PUC/ Inter-
mediate and Training Colleges. 10,000
- do - Physics. 10,000
Basic grant for purchase of library
books and journals for all Science
Deptts. 20,000
Basic grant for the purchase of
Scientific equipment for the Fourth
Five Year Plan period. 75,000
Grant towards expenditure on the Visit
of Prof. Samuel Devous F.R.S. 999

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Andhra Contd.

Grant of extension in the Scholarship tenure of Research scholarships in Science/Humanities.	1,497.58
- do -	1,496.23
Utilisation of Services of retired teachers.	1,241.94
Contingency grant for Junior Research Fellowships in Science.	1,624.46
- do -	500
Award of Junior Fellowships to the Students admitted to M.Tech. Course during 1967-68.	20,000
Grant-in-aid for the construction of High Valtage Laboratory building at Engg. College.	5,000
Award of Junior Fellowships to the Post-graduate students admitted to M.E. Course during 1967-68.	79,000

Affiliated Colleges.

Maharajas College, Vizianagram.	Establishment of Student's-Aid-Fund.	1,500
Narsapur College, Narsapur.	- do -	944
Hindu College, Guntur.	- do -	1,000
P.B.N. College, Nidubrolu.	- do -	569
A.N.R. College, Gudivada.	Extension of Physics Laboratory.	40,000
Maris Stalla College, Vijaywada.	Construction of Women's Hostel.	10,000
	Total.	3,05,372.21

5. Annamalai.	Grant towards publication of Various editions of Kambaramanayam.	40,000
	Purchase of furniture for the deptts. of Sociology and Psychology.	1,652
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	- do - Mathematics.	10,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Physics.	10,000
	- do - Biology.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	750
	Award of Junior Research Fellowships in Sciences.	1,890.22
	Grant in aid for additional facilities for the Engg. deptt.	50,000
	Grant in aid for the increase in admission capacity of Chemical Engg. Courses.	5,000
	Grant in aid for purchase of equipment for post-graduate courses in Engg.	20,000
	Construction of Hostel building for the Centre of Advanced Study in Marine Biology.	20,000

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Annexalal Contd.

Grant of extension in the Scholarship, tenure for Research Scholarships in Science/Humanities. 661.29

Total 1,89,953.51

6. Banaras Hindu University.

Construction of Separate Library blocks for the Women's College.	15,000
Construction of building for the College of Music and Fine Arts.	5,000
Grant for organising the 55th Session of Indian Science Congress.	2,500
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
- do - Biology.	10,000
Award of Junior Research fellowships in Science.	2,141.94
- do -	2,093.55
- do -	2,141.94
- do -	2,122.58
- do - Humanities and Social Sciences.	2,141.94
- do -	2,141.94
Contingency grant for Junior Research fellowships in Humanities.	1,000
Grant in aid for the introduction of 5 year Integrated Course in Engg. and Technology.	44,000
Construction of building for the deptt. of Mining and Metallurgy.	30,000
Construction of N.C.C. Block under the Scheme of Provision for Student's Amenities.	10,000
Grant in aid for the construction of Mini Ventilation Galary under the Scheme of Consolidation and development of the deptt. of Mining and Metallurgy.	50,000
Grant in aid for the introduction of post-graduate course in Coal Mining.	44,000
Grant towards additions and alterations to the building of the Surgical Research Laboratory of the College of Medical Sciences.	5,000
Construction of building for College of Medical Sciences.	4,00,000
Construction of 12 Isolation Rooms in the S.S. Hospital for isolation of cases of Infectious diseases of University employees.	20,000
Construction of 18 class IV Staff quarters for College of Medical Sciences.	10,000
Construction of Multi purpose Hall.	11,492.82
Construction of Class IV Staff quarters.	1,00,000

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Bangras Hindu Contd.

Construction of a building for the establishment of a Centre of Nuclear Medicine.	50,000
Grant towards revision of Scales of pay of teachers of Schools run by the University w.e.f. 1.4.1964:	50,000
Construction of Staff quarters for the College of Medical Sciences.	50,000
Construction of Teacher's Hostel.	20,000
Improvement of Lecturer's quarters.	1,50,000
Award of Research Scholarships in Science/Humanities.	959.68

Total. 11,11,736.39

7. Bangalore.

Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
- do - Chemistry.	10,000
- do - Physics.	10,000
- do - Mathematics.	10,000
Grant for holding a conference of teacher Educators in Mysore State.	2,000
Grant in aid for the award of Junior Fellowship to a Student of M.E. at the College of Engg., Bangalore.	1,900
Cultural Exchange Programme between India and U.S.S.R.	671.85
- do -	803.16

Affiliated Colleges.

Vijaya College, Bangalore.	Construction of Laboratory building.	35,000
Mount Carmel College, Bangalore.	Construction of Library building.	15,000
Maharani's College for Women, Bangalore.	Basic grant for the purchase of library books.	2,500
V.L.E. Society's College of Arts & Science, Bangalore.	- do -	2,500
Central College, Bangalore.	Utilisation of Services of retired teachers.	775.86
Maharani's College for Women, Bangalore.	Financial assistance to teachers for research work in Humanities & Social Sciences.	750
St. John's Medical College, Bangalore.	- do -	750

Total. 1,02,650.87

8. Berhampur.

Unassigned grant for the Fourth Plan Period.	6,500
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Total. 6,500

p.t.o.

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9. Bihar	Purchase of library books and journals (Humanities).	16,096.40
	<u>Affiliated Colleges.</u>	
C.M. College, Darbhanga.	Construction of Men's Hostel.	75,000
D.S. College, Katihar.	- do -	7,162
Ganga Singh College, Chapra.	Establishment of Text Book Library.	2,000
	Total.	1,00,258.40

10. Bombay.	Purchase of equipment for linguistic deptt.	761.50
	Construction of Consumer's Co-operative store building.	75,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	Recurring grant for staff and maintenance for the post-graduate course in the deptt. of Chemical Technology.	2,50,000
	Grant in aid for the purchase of library books and journals for the courses in Management Studies.	5,000
	Grant towards revision of Salary Scales of teachers as per third Plan Scales of pay.	59,270.76
	Construction of composite building to be used as Hostel/Residential accommodation.	20,000
	Construction of two flats for teachers on the hostel building at Matunga.	30,000
	Basic grant for the purchase of equipment for the deptt. of statistics.	10,000
	Programme of Exchange of Visits by younger Scientists between India and U.K.	85.45
	Cultural Exchange Programme between India and U.S.S.R.	563
	- do -	441.70
	- do -	461.55
	- do -	508.46

	<u>Affiliated Colleges.</u>	
D & H National College & M.A. Science College, Bandra, Bombay.	Establishment of Student's-Aid-Fund.	1,000
Siddharth College of Arts & Science, Bombay.	- do -	3,000
Sydenham College of Commerce & Economics, Bombay.	- do -	2,250
Siddharth College of Law, Bombay.	Basic grant for the purchase of library books.	2,500
Sophia College for Women, Bombay.	- do -	2,500
St. Xavier's Institute of Education, Bombay.	- do -	1,500
Secondary Training College, Bombay.	- do -	1,500

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Bombay Contd.

Ramnarain Ruia College, Bombay.	Basic grant for the purchase of Library books.	2,500
D & H National College & M.A. Science College, Bandra, Bombay.	- do -	2,500
Sir M.V. College of Science and Seth. L.H. College of Arts, Bombay.	- do -	2,500
Carmel College, Nuven, Goa.	- do -	1,500
Ismail Yusuf College, Bombay.	- do -	2,500
Elphinstone College, Bombay.	- do -	2,500
Sadhna School of Edu- cational Research & Training, Bombay.	- do -	1,500
Shri Chinai College of Commerce and Economics Bombay.	- do -	2,500
Jai Hind College, Bombay.	- do -	2,500
St. Xavier's College, Bombay.	- do -	2,500
Ruparel College, Bombay.	- do -	2,500
Sophia College for Women, Bombay.	Construction of Laboratory building and purchase of Furniture and equip- ment.	24,000
St. Xavier's College, Bombay.	Development of Micro film section of the college library.	1,000
Sydenham College, Bombay.	Extension in Fellowship tenure of Junior Research Fellowships in Humanities.	1,006.45
St. Xavier's College, Bombay.	Development of Post-graduate depts. of Physics, Chemistry, Botany, Microbiology and Geology.	25,000
Total.		<u>5,52,846.87</u>

11. Burdwan.	Const uction of Teacher's Hostel	65,000
	Payment of unassigned grant for 1967-68.	9,000

Affiliated Colleges.

Hooghly Women's Coll- ge, Hooghly.	Establishment of Text Book Library.	5,000
Gushkara Mahavidyala- va, Gushkara.	- do -	5,000
Trivandevi Bhalotia College, P.O. Raniganji	Establishment of Students-Aid-Fund.	2,500
Hooghly Mohsin College, Chinsurah.	- do -	2,149
Katwa College, P.O. Katwa.	- do -	3,000
Suri Vidya Sagar College, Suri.	- do -	3,000
Bidhan Chandra College, P.O. Rishra (Hooghly).	- do -	1,046

p.t.o.

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Burdwan Contd.

Ramananda College, Bishnupur.	Construction of Library building.	5,000
Trivanidevi Bhalotia College, P.O. Raniganj.	Construction of Non-Resident Student's Centre.	7,000
Kalna College, Kalna.	Basic grant for purchase of Library books.	2,500
Aghore Kamini Prakash Chandra Mahavidyalaya P.O. Bengal (Hooghly).	- do -	2,500
Rampurhat College, P.O. Rampurhat,	- do -	2,500
Hooghly Mohsin College, P.O. Chinsurah,	- do -	2,500
Syam Sundar College, Syam Sundar,	- do -	2,500
Burdwan Raj College, Burdwan,	Financial assistance to teachers for research work in Humanities & Social Science.	500

Total.	1,20,695
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12. Calcutta.

Grant for the award of prize in the National Essay competition in connection with the celebration of International Co-operation year.	1,000
Purchase of equipment under the Research Scheme on Liquid-Liquid Extraction Heat Transfer and catalysis at the deptt. of Applied Chemistry.	2,100
Contingency grant for Senior Research fellowships in Humanities.	500
Extension in Fellowship tenure of Junior Research Fellowships in Science.	725.81
- do -	1,387.10
Utilisation of Services of retired teachers.	6,000
Financial assistance to teachers for research work in Humanities and Social Sciences.	1,000
Grant of extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,504.62

Affiliated Colleges.

Ananda Mohan College, Calcutta.	Financial assistance to teachers for Research work in Humanities and Social Sciences.	1,000
Victoria Institution, Calcutta.	- do -	500
Midnapore College, Midnapore.	- do -	500
Dakshin Barasat College, P.O. Dakshin Barasat.	Purchase of Library Books.	2,000
Sanskrit College, Calcutta.	Extension of Sanskrit Research Block for providing accommodation for day scholars.	70,000

Calcutta contd.

Ramakrishana Mission. Establishment of Hobby Work-shop..		3,000
Vidya mandira, P.O. Belur Math.		
Midnapore College, Establishment of Students-Aid-Fund.		3,000
Midnapore.		
Jamralipta Mahavid- yalaya, P.O. Tamruk,	do ..	2,559
Kidderpore College, Calcutta.	- do -	684
Rabindra Satabarsiki Mahavidyalaya, P.O. Ghatal.	- do -	1,750
Women's College, Calcutta.	- do -	1,320
Acharya Prafulla Chandra College of Commerce, P.O. New Barrackpore.	- do -	554
Surinder Nath College for for Women, Calcutta.	- do -	2,000
Gharuchandra College, Calcutta.	- do -	2,000
Jhargram Raj College, Establishment of Text Book Library.		5,000
Jhargram.		
Seva Bharati Maha- vidyalaya, P.O. Parihati.	- do -	2,000
Uluberia College, P.O. Uluberia.	- do -	5,000
Prabhu Jagat bandhu College, P.O. Andul Mauri.	- do -	2,000
Kanya Kumari College, of Commerce, Jiaganj, (Murshidabad).	- do -	2,000
Seth Soorajmal Jalan Girl's College, Calcutta.	- do -	2,000
Sanskrit College, Calcutta;	- do -	2,000

Total.	1,25,084.53
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13. Delhi:	Institution of One year certificate course in Urdu Paleography under the Faculty of Arts.	6,000
	Travel grant to Prof. H. Vaishnaro of Maulana Azad Medical College for attending the conference of diabetes Mellitus at Stockholm.	3,087
	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
	- do - Mathematics (All India)	10,000

p.t.o.

1/2

Delhi Contd.

Construction of Staff quarters for Miranda House.	50,000
Levelling of site for construction of Guest House-cum-Club building.	1,321.59
Grant for establishment of Text Book Libraries in constituent colleges.	30,000
Establishment of Student's-Aid-Fund.	2,415
Grant of extension in the Scholarship tenure of Research Scholarships in Humanities.	879.03
Payment of unassigned grant for 1967-68	15,000
Construction of building for housing liquid helium plant and liquid nitrogen plant.	30,000
Construction of additional accommodation for the deptt. of Physics for the increased admission to Honours Courses.	50,000
Programme of exchange of Visits by younger Scientists between India and U.K.	5,467

Constituent Colleges.

Indraprastha College for Women, Delhi.	Establishment of Student's Aid-Fund.	2,535
Ram Lal Anand College, New Delhi.	- do -	500
Women's College, Timarpur, Delhi.	- do -	1,500
Hindu College, Delhi.	- do -	1,500
Hastinapur College, New Delhi.	Financial assistance to teachers for research work in Science.	250
Kirori Mal College, Delhi.	Improvement of College play ground.	10,000
Mata Sundri College for Women, New Delhi.	Establishment of Text Book Library.	5,000
Women's College, Timarpur Delhi.	- do -	5,000
R.L. Anand College, New Delhi.	- do -	5,000
Hastinapur College (Day) New Delhi.	- do -	5,000
- do -(Evening) New Delhi.	- do -	5,000
Rajdhani College, Kirti-nagar, New Delhi.	- do -	5,000
Modern College for Women, New Delhi.	- do -	5,000

Total. 2,75,454.62

14. Dibrugarh.	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
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Total. 10,000

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15. Gauhati.	Grant for organising a Summer Institute in Physics for College teachers.	10,000
	Award of Scholarships for Post-graduate studies in Science and Humanities including Social Sciences by the Students of Hill Areas of North East India.	1,280
	- do -	1,280
	- do -	854.84
	- do -	1,280.
	- do -	1,280
	- do -	1,280
	- do -	1,280
	- do -	1,280
	- do -	1,206.45
	- do -	1,280
	- do -	1,280
	- do -	1,280

Affiliated Colleges.

Pandu College, Pandu.	Establishment of Text Book Library.	5,000
D.M. College, Imphal.	Establishment of Student's-Aid-Fund.	1,000
Karimganj College, P.O. Karimganj.	- do -	2,500
Sankardev College, Shillong.	- do -	1,312
Tinsukia College, Tinsukia.	- do -	497
St. Edmands College, Shillong.	- do -	1,799
Haflong College, Haflong	Improvement of Library facilities.	2,000
Abhayapuri College, Abhayapuri.	Construction of Men's Hostel.	20,000
Darrang College, Tezpur.	Construction Women's Hostel.	3,400
Total		62,369.29

16. Gorakhpur.	Construction of Arts Block Building.	5,000
	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	Construction of Teacher's Hostel.	50,000
	Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
	Payment of unassigned grant for 1967-68	6,000

Affiliated Colleges.

Degree College, Ghaziipur.	Grant towards revision of Salary Scales of teachers as per II Plan Scales of pay.	490
Udit Narain Degree College, Padrauna.	Expansion of Science education.	5,000
Tilak Dhari Degree College, Jaunpur.	Construction Physics and Biology Block.	35,000

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Gorakhpur Contd.

Shivapuri Degree College, Shohratgarh,	Basic grant for purchase of Library books.	1,500
Udai Pratap College, Varanasi.	- do -	2,500
S.C. Collage, Ballia.	- do -	2,500
Degree College, Pratapgarh.	- do -	2,500
Shibli National College, Azamgarh.	- do -	2,500
St. Andrews College, Gorakhpur.	Grant towards revision of Salary Scales of teachers, as per Second Plan Scales of pay.	543.54
K.B. Degree College, Mirzapur.	Construction of Library building and purchase of furniture.	20,000
National Degree College, Barahalganj.	Establishment of Text Book Library.	5,000
R.S.K.D. Degree College, Jaunpur.	- do -	2,000
Udit Narain Degree College, Padrauna.	- do -	2,000
- do -	Establishment of Student's-Aid-Fund.	724
G.S. Degree College, Samodhpur, Jaunpur.	- do -	1,000
D.A.V. Degree College, Azamgarh.	- do -	1,500
Budha Vidyapeeth Degree, College, Nowgarh, Basti.	- do -	818
<u>Total</u>		<u>1,68,736.83</u>

17. Gujarat.

Grant towards the Scheme of additional teaching staff for Humanities and Social Sciences deptts.	20,000
Grant towards holding a Work-shop for Chemistry courses.	2,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Physics.	10,000
- do - Biology.	10,000
Grant for organising a Summer Institute in Biology for College teachers.	10,000
Cultural Exchange Programme between India and U.S.S.R.	668.95

Affiliated Colleges.

D.K.V. Arts and Science College, Jamnagar.	Purchase of Water-Cooler	92.32
Sir Lallubhai Shah Arts/Law College, Ahmedabad.	Establishment of Text Book Library	6,500
Patel J.B. Rudewala Arts College and Patel A.M. Rudewala Commerce College, Borsad.	- do -	1,500
City Arts College, Ahmedabad.	Establishment of Student's-Aid-Fund.	1,000

Gujarat Contd.

K.H.Madhvani Arts and Commerce College, Porbandar.	Establishment of Student's-Aid-Fund,	750
City Commerce College, Ahmedabad.	- do -	1,750
Gujarat College, Ahmedabad.	- do -	1,000
Kamini Science College and Prataprai Arts College, Amreli.	- do -	1,750
H.L. College of Commerce, Ahmedabad.	- do -	3,000
Arts and Science College, Bhadran.	- do -	1,500
Patel J.B. Rudewala Arts College and Patel A.M. Rudewala Commerce College, Borsad.	- do -	579
Sheth H.J. Law College, Bhavnagar.	- do -	1,074
Shri N.K.M. Science College, Bulsar.	- do -	2,009
Gujarat College, Ahmedabad.	Award of Research Training Scholarships.	9,910.92
Navgujarat Commerce and Law College, Ahmednagar.	Improvement of Chalk boards.	1,000
- do -	- do -	1,000
Ahmedabad Science College, Ahmedabad.	- do -	1,000
Ahmedabad Arts and Commerce College, Ahmedabad.	- do -	1,000
M.N. College, Visnagar.	Utilisation of Services of retired teachers.	706.90
S.V. Patel College of Arts and Science, Bilimora.	Financial assistance to teachers for research work in Humanities and Social Sciences.	250
Shri N.H. Commerce College and Shri N.K.M. Arts College, Bulsar.	Development of Post-graduate studies in the Humanities and Social Sciences.	5,000

Total. 1,05,041.09

18. Indore.

Affiliated Colleges.

Devi Anilya Girl's Degree College, Indore.	Establishment of Text Book Library.	2,000
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Total. 2,000

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19. Jabalpur. Grant for organising a Summer Institute in Mathematics for College teachers. 10,000

Affiliated Colleges.

College of Educational Psychology & Guidance, Jabalpur.	Basic grant for the purchase of Library books.	1,500
Govt. Science College, Jabalpur.	- do -	2,500
Keswani Mahavidyalaya, Jabalpur.	- do -	2,500
N.E.S. Arts College, Jabalpur.	- do -	1,500
C.P. Mahila Mahavidyalaya, Jabalpur.	- do -	1,500
G.S. College of Commerce or Economics, Jabalpur.	- do -	2,500
Mahakoshal Arts Mahavidyalaya, Jabalpur.	- do -	2,500
Shri Tilak Rashtriya Mahavidyalaya, Katni.	- do -	1,500
St. Aloysius College, Jabalpur.	- do -	2,500
M.H. College of Home Science for women, Jabalpur.	- do -	2,500

Total: 31,000

20. Jadavpur.	Grant towards the scheme of institution of Bachelor of Literary Science Course.	6,000
	Grant towards the salaries of the staff for the scheme of the Introduction of Applied Economics and Demography in the postgraduate course in Economics.	6,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	- do - Mathematics.	10,000
	- do - Physics.	10,000
	Grant-in-aid for construction of building for Degree Course in Metallurgy.	50,000
	Grant-in-aid for 3 year Degree Course in Food Technology and Bio-chemical Engg.	8,000
	Grant-in-aid for post-graduate course in Mechanical Engg.	60,000
	Payment of recurring grant for Post-graduate course in Food Technology.	10,000
	Grant-in-aid for modernisation of Chemical Engg. degree course.	1,656.20
	Payment of recurring grant for 3 year under-graduate degree course in Food Technology and Bio-Chemical Engg.	30,000
	Grant-in-aid for 3 year Degree Course in Instrumentation and Automatic Control Engg.	50,000

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Jadavpur Contd.

Construction of building for the Post-graduate course in Chemical Engg.	50,000
Payment of recurring grant for Post-graduate courses in Engg.	3,00,000
Grant-in-aid for 4-year degree course in Pharmacy.	25,000
Extension in Fellowship tenure of Senior Research Fellowships in Science.	1,403.23
- do - Engg. & Technology.	1,786.67
Grant for the working of the Gandhi Bhavan.	5,000
Award of Scholarships for Post-graduate studies in Science & Humanities including Social Sciences by the Students of Hill Areas of North East India.	1,078.71
Construction of building for the Science depts.	50,000
Total.	6,95,924.81

21. Jammu & Kashmir.	Construction of 12 Reader's quarters at Srinagar.	40,000
	Construction of Chemistry deptt. building at Srinagar.	80,000

Affiliated Colleges.

S.P.M. Rajput College of Commerce, Jammu.	Establishment of Hobby Work-shop Scheme	1,000
Total:		1,21,000

22. Jiwaji:

Affiliated Colleges.

Vijay Raje Sciendia Mahavidyalaya, Bhandar.	Establishment of Student's-Aid-Fund.	967
Jain Degree College, Bhind.	- do -	1,588
Total.		2,555

23. Jodhpur.

Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
Construction of Staff quarters for Readers & Lecturers.	50,000
Construction of single seated Hostel for men students.	40,000
Construction of Triple seated Hostel for men students.	50,000

Jodhpur Contd.

Construction of Science Block No. I for the	60,000
depts. of Physics & Mathematics,	
Payment of recurring grant towards the	70,000
salary of additional staff appointed in	
various Science depts.,	

Total.	2,80,000
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24, Kanpur,	Unassigned grant for the year 1967-68,	6,500
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Affiliated Colleges.

R.M.P. Degree College, Sitapur.	Establishment of Student's Aid-Fund,	832
Bhagwan Din Arya Kanya Patashala College, Lakhimpur Kheri,	- do -	545
S.N. Sen B.V. Degree College, Kanpur.	- do -	1,000
Govt. Agricultural College, Kanpur.	Purchase of books and journals in Commu- nity Development, Co-operation and Panchayati Raj.	2,000
Y.D. College, Lakhim- pur Kheri.	Construction of Teachers Hostel.	10,000
Janta Degree College, Ajitmal	Construction of Laboratory Building.	25,000

Total,	46,697
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25. Karnatak,	Purchase of library books and journals (Humanities)	15,000
	Grant towards the scheme of research "A Profile of rural youth"	5,000
	Award of prizes in National Essay compe- tition in connection with celebration of International Co-operation year,	1,000
	- do -	1,000
	Award of Junior Research Fellowships in Science.	2,141.94
	- do -	2,074.19
	Grant towards revision of salary scales of teachers of S.B. College of Commerce, Gulbarga,	757.35
	Payment of unassigned grant for 1967-68.	9,000

Total	35,973.48
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26, Kerala,	Advance grant for organising a Summer Institute in Endocrinology (All India) for college teachers,	10,000
	- do - Mathematics.	10,000
	- do - Physics.	10,000
	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000

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Kerala Contd. Utilisation of Services of retired teachers. 1,000

Affiliated Colleges.

Christ College, Irinjalakuda.	Improvement of Chalk boards.	1,000
Assumption College, Changanacherry.	- do -	1,000
Union Christian College, Alwaye.	Establishment of Hobby Work-shop.	3,392
St. Albert's College, Ernakulam.	Improvement of Chalk boards.	1,000
Farook College, Feroke.	Establishment of Hobby Work-shop.	917
- do -	Improvement of Chalk boards.	1,000
N.S.S. College for Women, Trivandrum.	Basic grant for purchase of library books.	2,500
Govt. Training College, Trivandrum.	- do -	1,500
St. Joseph's Training College, Mannanam.	- do -	1,500
Titus II Teacher's College, Tiruvalla.	- do -	1,500
Sree Kerala Varma College, Trichur.	- do -	2,500
Post Memorial Training College, Mavelikkara.	- do -	1,500
Union Christian College, Alwaye.	- do -	2,500
Govt. College, Madapally.	- do -	2,500
Mar Theophilus Training College, Trivandrum.	- do -	1,500
N.S.S. Training College, Pandalam.	- do -	1,500
Mount Tabor Training College, Pathanapuram.	- do -	1,500
Karmala Rani Training College, Quilon.	- do -	1,500
St. Thomas Training College, Palai.	- do -	1,500
St. Joseph's Training College for Women, Ernakulam.	Establishment of Student's-Aid-Fund.	600
Sree Narayana College, for Women, Quilon.	- do -	3,000

Total. 76,409

27. Kurukshetra.	Construction of Second Women's Hostel.	50,000
	Grant of extension in the scholarship tenure of Research scholarships in Science/Humanities.	750
	- do -	782.26
	Purchase of Science equipment for the deptt. of Chemistry.	30,000
	Award of Research Training Scholarships.	935.48

Total, 82,467.74

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28. Lucknow:	Purchase of books and journals in community Development, Co-operation and Panchayati Raj.	2,000
	Grant for the conduct of Seminar on English as a part of follow up Programme.	3,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges;	10,000
	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
	Contingency grant for Junior Research Fellowships in Humanities.	500
	Extension in fellowship tenure of Junior Research Fellowships in Humanities.	600
	Extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,103.17
	Award of Research Training Scholarships.	4,925.01

Affiliated Colleges.

Kanya Kubja Vocational Degree College, Lucknow.	Grant towards revision of Salary Scales of teachers as per II Plan scales of pay.	455.72
Lucknow Christian College, Lucknow.	Basic grant for purchase of Library books.	2,500
Loreto College, Lucknow.	- do -	1,500
Isabella Thoburn College, Lucknow.	- do -	2,500
D.A.V. Degree College, Lucknow.	- do -	2,500
Lucknow Christian College, Lucknow.	Expansion of Science education.	25,000
Total.		<hr/> 66,583.90 <hr/>

29. Madras:	Grant for the conduct of Summer Institute in English and Seminar on English as a part of follow-up programme.	8,500
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Biology.	10,000
	Grant-in-aid for the award of Junior Fellowships to the Student's admitted during 1967-68.	24,000
	Grant for staff and maintenance for the school of Architecture during 1967-68.	3,600
	Basic grant for the purchase of library books and journals for the development of Engg. and Technological education.	20,000
	Recurring grant for Ramanujan Institute for Advanced study in Mathematics for the year 1967-68.	50,000

Affiliated Colleges.

Setupati Govt. Arts College, Ramanathapuram.	Establishment of Text Book Library.	2,000
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Madras Contd.

Vivekananda College, Madras,	Establishment of Student's-Aid-Fund.	3,000
P.S.G. Arts College, Coimbatore.	- do -	3,000
Voorbees College, Vellor.	- do -	2,500
Viveka Nanda College, Mylapore.	Development of Postgraduate studies in Humanities.	8,000
Nirmala College, Coimbatore.	Purchase of Science equipment and Lib- rary books.	8,000
Madras Christian Colle- ge, Tambaram, Madras.	Contingent grant for utilisation of servi- ces of retired teachers.	1,000
P.S.G. College of Tech- nology Peelamedu, Coimbatore.	Financial assistance to teachers for res- earch work in Humanities and Social Sciences.	750
Presidency College, Madras	Award of Junior Research fellowships in Science.	1,900
Agriculture College and Research Insti- tute, Coimbatore.	- do -	2,141.94
St. Joseph's College, Tiruchirapalli.	Development of Post-graduate deptt. of Botany.	12,000
Seethalakshmi Rama- Swami College, Tiru- churapalli.	- do - Chemistry.	5,000

Total. 1,70,391.94

30. Madurai.	Award of prizes in National Essay- Competition in connection with celebra- tion of International Co-operation year.	500
	Grant for organising a Summer Institute in Mathematics for College Teachers.	10,000
	Extension in Fellowship tenure of Junior Research Fellowships in Science.	861.29
	Establishment of students-aid-fund.	1,711

Affiliated Colleges.

Alogappa College, Karaikudi.	Establishment of Student's-Aid-Fund.	3,000
R.D.M. College, Sivaganga.	- do -	2,250
Sri Palaniyadavar Arts College, Palani.	Establishment of Text Book Library.	4,000
Ayya Nadar Janaki Ammal College, Sivakasi.	- do -	5,000
Sarah Tucker College, Palayamkottai.	Establishment of Student's-Aid-Fund.	2,250
Arurugan Pillai Seethai Ammal College, Tirupattur.	- do -	1,359

Total. 30,931.29

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31. Magadh.	Construction of Teacher's Hostel.	35,000
	<u>Affiliated Colleges.</u>	
Sri Guru Govind Singh College, Patna City.	Establishment of Text Book Library.	2,000
D.K. College, Dumri.	Basic Grant for the Purchase of library books.	1,500
M.N. Mahila Mahavidyalaya, Arrah.	- do -	1,500
Swami Sahajanand College, Jahanabad.	- do -	2,500
A.S. College, Bikramganj.	- do -	2,500
Baldeo Narain College, Rajgir.	- do -	1,500
S.M.D. College, Poonpoo.	- do -	1,500
	Total.	48,000

32. M.S. University of Baroda.	Grant for organising a Summer Institute in Physics for College teachers.	10,000
	- do - Mathematics.	10,000
	Construction of Staff quarters.	11,611
	Utilisation of Services of retired teachers.	1,000
	Grant towards revision of salary scales of University teachers in Engg. and Technological Institutions/Deptts.	2,00,000
	Basic grant for the purchase of Scientific equipment.	1,00,000
	Payment of unassigned grant for 1967-68	13,500
	Cultural Exchange Programme between India and U.S.S.R.	171.24
	Grant for Students Counselling Centre during 1966-67.	30,195.79
	Total.	3,76,478.03

33. Marathwada.	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	- do - Mathematics.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	750
	- do -	750
	- do -	1,000
	<u>Affiliated Colleges.</u>	
Yeshwant Mahavidyalaya, Nanded.	Construction of Men's Hostel.	7,000
Maharashtra Udayagiri Mahavidyalaya, Udgir.	Improvement of Chalk boards.	1,000

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Marathwada Contd.

Maulana Azad College of Arts, Science & Commerce, Aurangabad.	Construction of Library and Laboratory buildings.	15,000
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Total.	45,500
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34. Meerut.	Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
	Unassigned grant for the Fourth Plan period.	812.50

Affiliated Colleges.

Kisan Degree College, Simbhaoli.	Establishment of Text Book Library.	2,000
S.S.V. College, Hapur.	Development of Post-graduate studies in Humanities and Social Sciences.	4,463
M.M.H. College, Ghaziabad.	- do -	5,000
S.D. College, Muzaffar nagar.	Special grant for the purchase of Library books for the Post-graduate deptt. of Commerce.	750
J.V. Jain College, Saharanpur.	- do -	750
S.S.V. College, Hapur.	- do -	750
N.R.E.C. College, Khurja.	- do -	750
Meerut College, Meerut.	- do -	750
Multaniamal Modi College, Modinagar.	- do -	750
D.A.V. (Post-graduate) College, Dehradun.	- do -	750
Meerut College, Meerut.	Financial assistance to teachers for research work in Humanities and Social Sciences.	150
Multaniamal Modi College, Modinagar.	Utilisation of Services of retired teachers.	758.62
- do -	Special grant for the purchase of Library books for the Post-graduate deptt. of Physics.	500
S.D. College, Muzaffar-nagar.	- do -	500
D.A.V. College, Dehradun.	- do - Mathematics.	500
D.A.V. College, Muzaffarnagar.	Development of Post-graduate deptts. of Physics, Zoology, Chemistry and Mathematics.	20,000
Janta Vedic College, Baraut.	Special grant for the purchase of Library books for the Post-graduate deptt. of Physics.	500

Total.	50,434.12
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35. Mysore.	Purchase of departmental books (Humanities)	30,000
	Purchase of furniture and fittings for the New Arts Block Building.	35,000

Mysore Contd.

Construction of Open Air Theatre at Manasa-gangotri.	2,00,000
Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Physics.	10,000
Grant for organising a Summer Institute in Chemistry for College Teachers:	10,000
- do - Biology.	10,000
- do - Physics.	10,000
Construction of Professors, Readers and Lecturers quarters.	1,25,000
Financial assistance to teachers for research work in Humanities and Social Sciences.	1,250
Utilisation of Services of retired teachers.	534.48
Contingency grant for Junior Research fellowships in Science.	1,000
- do - Senior Research Fellowships in Humanities.	500
Purchase of Scientific equipment for various Science depts.	45,000
Grant towards the salary of additional staff appointed in the Chemistry deptt.	30,000
<u>Affiliated Colleges.</u>	
Sri Siddeganga College of Science, Tumkur.	Establishment of Student's-Aid-Fund. 1,000.
Sri Bhuvanandra College, Karkala.	Purchase of library and Laboratory fittings and furniture. 12,000
- do -	Purchase of library books and laboratory equipments. 20,000
Kalpataru College, Aiptur.	Financial assistance to teachers for research work in Humanities and Social Sciences. 500
M.E.S. College of Arts & Commerce, Bangalore.	- do - 375
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Total.	5,52,765.48
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36. Nagpur.	Establishment of Students Health Centre. 5,000
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges. 10,000
	Grant for organising a Summer Institute in Chemistry for college teachers. 10,000
	- do - Physics. 10,000
	Construction of Teacher's Hostel. 9,000
	Award of Junior Fellowships to the Students admitted to the P.G. Courses in Chemical Engg. and Chemical Technology at the Laxminarayan Institute of Technology during 1966-67. 20,000
	- do - 1967-68. 20,000

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Nagpur Contd.

Basic grant for the purchase of library books and journals for the development of Engg. and Technological Education.	35,000
Grant-in-aid for the award of Junior fellowships to the Students admitted to the P.G. Courses in Chemical Engg. and Technology.	3,000
Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
Utilisation of Services of retired teachers.	965.52

Affiliated Colleges.

Hislop College, Nagpur.	Extension in Fellowship tenure of Senior Research Fellowships in Humanities.	1,000
Shri M. Mohota College, of Science, Nagpur.	Purchase of library books and equipment.	34,875
St. Francis De Sale's College, Nagpur.	Establishment of Student's-Aid-Fund.	2,500
Nevaji bai Hitkarini College, Bramhapuri.	- do -	1,468
Smt. Binzani Mahila Mahavidyalaya, Nagpur.	Establishment of Text Book Library.	5,000
Janta Mahavidyalaya, Chandrapur.	- do -	1,000
Nabira Mahavidyalaya Katol.	- do -	4,000
Total.		1,74,969.81

37. North Bengal:

Affiliated Colleges.

Maldev College, Malda.	Establishment of Student's-Aid-Fund.	3,000
Dinhata College, Dinhata.	Basic grant for the purchase of Library books.	2,500
Total.		5,500

38. Osmania.

Award of prizes in the National Essay Competition in connection with the celebration of International Co-operation year.	750
Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
- do - Chemistry.	10,000
- do - Biology.	10,000
Grant for organising a Summer Institute in Biology for College teachers.	10,000
- do - Chemistry.	10,000
- do - Genetics.	10,000
Contribution of additional staff quarters.	20,000

p.t.o.

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Osmania Contd.

Award of Junior Fellowships to the Students of M.E. Course.	10,000
Recurring grant for introduction of Three Year Degree Course in Engg. for graduates in Science, at the College of Engg.	50,000
Grant-in-aid for the construction of 1st floor over the Chemical Technology building for post-graduate course in Chemical Engg.	30,000
Grant-in-aid for the construction of building of the P.G. Course in Civil Engg.	25,000
Payment of recurring grant for staff and maintenance towards increase in admission capacity in the deptt. of Chemical Technology.	45,000
Payment of recurring grant for staff and maintenance towards conversion of 4-year degree course of Tele-Comm: Engg. into 5-year Integrated course at the College of Engg.	60,000
Award of Junior Research Fellowships in Science.	2,141.93
Utilisation of Services of retired teachers.	879.31
Grant towards revision of Salary scales of teachers of Vanita Mahavidyalaya, Hyderabad.	12,155.67
Construction of hostel of the Chemical Technology.	50,000
Financial assistance for the establishment of Student's Home.	5,000
Payment of unassigned grant for 1967-68.	13,500
Construction of Dome for observatory at Rangapur.	1,50,000
Institution of a Post-graduate diploma course in geographical Cartography.	11,500

Affiliated Colleges.

Vivek Vardhini College, Hyderabad.	Purchase of laboratory equipment and Library books.	38,000
Anwar-ul-Uloom College, Hyderabad.	Construction of laboratory building and Museum.	6,373
Sri Ramachandra Arts and Science College, Kothagudium.	Purchase of books and Science equipments	15,000
Vanita Mahavidyalaya, Hyderabad.	Establishment of Text Book Library.	5,000
Arts & Science College, Jadcharla.	- do -	5,000
Sri Venkateswara Arts & Science College, Paleh.	Purchase of Scientific equipment & furniture.	8,000

Total.	6,23,299.91
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39. Panjab.	Grant towards the scheme of "A Study of IV general Election in India".	1,000
	Grant towards the scheme of "Research in Social Welfare entitled. "an enquiry into the determinants of anxiety in School Children".	6,000
	Grant towards the Scheme of Devnagari transcription of South Indian script MSS.	20,000
	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	- do - Mathematics.	10,000
	- do - Chemistry.	10,000
	Award of Junior Fellowships in Engg. & Technology to Post-graduate Student's admitted in Chemical Engg. in 1967-68.	21,000
	Grant-in-aid for introduction of Post-graduate Course in Chemical Engg.	25,000
	- do - Pharmacy.	14,000
	Grant-in-aid for the increase in intake in the degree course of Chemical Engg. deptt.	10,000
	Award of Junior Research fellowships in Humanities and Social Sciences.	2,132.26
	- do - Science.	2,141.94
	Extension in fellowship tenure of Senior Research fellowships in Engg. and Technology.	980.65
	Award of Senior Research fellowships in Science.	3,600
	Utilisation of Services of retired teachers.	4,677.42
	- do -	827.59
	Financial assistance to teachers for research work in humanities and Social Sciences and Sciences.	500
	Award of Research Training Scholarships.	2,000
	Grant for working of the Gandhi Bhavan.	5,000
	Purchase of Scientific equipment in the deptt. of Chemistry.	25,000
	- do - Geography.	5,000

Affiliated Colleges.

D.A.V. College, Jullundur.	Development of Post-graduate studies in the Humanities and Social Sciences.	5,000
Govt. College, Dharamsalla.	Financial assistance to teachers for research work in Humanities and Social Sciences.	375
Khalsa College for Women, Sidhwan Khurd.	Construction of Women's Hostel.	10,957
Kishan Lal Public College, Rewari.	Establishment of Student's-Aid-Fund.	1,750
D.M. College of Education, Moga.	- do -	1,112
A.S. College, Khanna.	- do -	2,250
Panjab University Evening College, Jullundur.	- do -	1,750
Nehru College, Ajrenda.	- do -	725
Arya Girl's Degree College, Ambala Cantt.	- do -	500
Govt. College for Women, Amritsar.	- do -	2,185
Arya Girl's College, Ambala Cantt.	Establishment of Text Book Library.	2,000

Total. 2,17,463.86

40.	Panjab Agricultural. Award of Junior Research Fellowships in Science.	2,141.94
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Affiliated Colleges.

	College of Veterinary Medicine, Hissar. Contingency grant for Junior Research fellowships in Science.	1,000
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	Total. <u>3,141.94</u>
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41.	Patna. Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary Schools/PUC/intermediate and Training Colleges.	10,000
	Award of Junior Research Fellowships in Humanities and Social Sciences.	2,161.29
	Contingency grant for Junior Research fellowships in Humanities.	1,000
	Grant-in-aid for increase in admission capacity at Bihar College of Engg.	60,000
	Grant-in-aid for introduction of Post-graduate Diploma Courses and Research Units in Civil Engg.	10,000

	Total. <u>83,161.29</u>
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42.	Poona. Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate and Training colleges.	10,000
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	- do - Mathematics.	10,000
	- do - Biology.	10,000
	Construction of Second phase of the building for the Centre of Advanced Study in Sanskrit.	30,000
	Construction of the building for the Centre of Advanced Study in Linguistics.	72,097.15

Affiliated Colleges.

	College of Education, Ahmednagar. Basic grant for the purchase of Library books.	1,500
	Arts & Commerce College, Nandurbar. - do -	1,500
	M.E.S. College of Commerce, Poona. - do -	2,500
	S.P.D.M. Arts & S.B.B. & S.H.D. Commerce College, Shirpur. - do -	1,500
	Partap College, Amalner. - do -	2,500
	H.P.T. College, Nasik. - do -	2,500

p.t.o.

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Poona Contd.

S.V.P.S. Arts & M.F. Basic grant for the purchase of Library M.A. Commerce College, books.		2,500
Dhula.		
B.M. College of Commerce, Poona.	- do -	2,500
Smt. Chandibai Hima- thmal Mansukhani College, Ulhasnagar.	- do -	2,500
Baramati College, Baramati.	- do -	2,500
Dr. B.A. College of Arts, Science & Comm- erence, Mahad.	Establishment of Student's-Aid-Fund;	1,500
Ferguson College, Poona.	- do -	3,000
S.N. Arts Commerce & B.N.S. Science College, Sangamner.	- do -	1,481
Pratap College, Amalner.	Development of Post-graduate studies in Humanities and Social Sciences.	5,000
Arts, Science and Commerce College, Chalisgaon.	Construction of Men's Hostel.	8,000
Dr. B.A. College of Arts, Science, Comm- erence, Mahad.	Basic grant for purchase of library books.	1,500
J.S.M. College, Alibag.	- do -	2,500
B.Y.K. College of Commerce, Poona.	- do -	2,500
	Total.	1,89,578.15

43. Rajasthan.	Grant for organising a Summer Institute in Chemistry for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges at Ajmer.	10,000
	- do - . at Jaipur.	10,000
	- do - Mathematics.	10,000
	Grant for holding a Seminar in Election studies Methodology.	15,000
	Grant for organising a Summer Institute in Chemistry for College teachers at Jaipur.	10,000
	- do - Mathematics (All India)	10,000
	- do - Biology.	10,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	150
	Grant for working of the Gandhi Bhavan. Cultural Exchange Programme between India and G.D.R. for 1967-68.	5,000 235.38

Affiliated Colleges.

R.L. Saharia College, Kaladara.	Establishment of Student's Aid-Fund.	750
G.V. Golden Jubilee N.S. Mahavidyalaya, Sangaria.	- do -	500

p.t.o.

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Rajasthan Contd.

Bharat Sevak Samaj, College, Jaipur.	Establishment of Text Book library.	5,000
Govt. College, Tonk.	- do -	2,000
Nehru Memorial College, Hanumangarh Town.	- do -	2,000
B.S.S. Evening College, Sriganganagar.	- do -	2,000
Basic Teacher's Training College, Sardar Shahar.	Purchase of Water Cooler,	525
Bhagwandas Todi College, Laxmangarh.	Establishment of Student's-Aid-Fund.	1,500
G.D. Govt. College for Women, Alwar.	- do -	694
Govt. College, Kotputli.	Financial assistance to teachers for research work in Humanities, Social Sciences and Sciences.	208.88
Govt. College, Ajmer.	- do -	500
Bansthali Vidya-pith, Banasthali.	Contingency grant for Senior Research fellowships in Humanities.	1,000
Savitri Girl's College, Ajmer.	Construction of Laboratory building.	10,980
Govt. College, Ajmer.	Award of Research Training Scholarships.	1,658.33

Total. 1,09,701.59

44. Ranchi.	Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediate & Training Colleges.	10,000
	Financial assistance to teachers for Research work in Humanities and Social Sciences.	500

Total. 10,500

45. Ravi Shankar.

Affiliated Colleges.

Govt. College of Engg. and Technology, Raipur.	Financial assistance to teachers for Research work in Humanities and Social Sciences and Sciences.	1,250
J.N.M. College, Dongargarh.	Establishment of Student's-Aid-Fund.	508
Govt. Degree College, Ambikapur.	Establishment of Text Book Library.	2,000
Dhamtari Science, Arts and Commerce College, Dhamtari.	- do -	2,000

Total. 5,758

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46. Roorkee.	Construction of Staff quarters.	20,000
	Construction of Teachers Hostel	5,000
	Grant-in-aid for introduction of M.E Course in Mechancial Engg.	60,000
	Award of Junior Fellowships to Students-admitted for M.E. (Advanced Electrical Machines) course during 1967-68.	1,750
	Grant-in-aid for introduction of the P.G. Course in Civil Engg. Deptt.	50,000
	Grant-in-aid for the development and consolidation of existing degree courses and increase in intake in Electrical and Mech. Engg.	90,000
	Award of Junior Fellowships to Students admitted for M.E. Courses during 1967-68.	9,000
	Grant-in-aid for additional facilities on the bifurcation of the departments of Electrical and Telecomm. Engg.	30,000
	Grant-in-aid for introduction of degree course in Chemical Engg.	30,000
	Award of Senior Research fellowships in Science.	2,951.61.
	- do - Engg. & Technology.	2,200
	Grant-in-aid towards studentships to M.Sc.(Applied Geology) students.	5,486.94
		<hr/>
	Total.	3,06,388.55

47. S.N.D.T. Women's University, Bombay.	Purchase of Library books and Journals (Humanities)	10,000
	Purchase of furniture for Women Hostel.	6,451
	Basic grant for purchase of library books.	2,500
	Purchase of Scientific equipment for the Home Science.	7,167
	<u>Affiliated Colleges.</u>	
Z.F. Wadia Women's College, Surat.	Establishment of Student's-Aid-Fund.	1,128
Smt. M.M. Shah Mahila College, Surendranagar.	Basic grant for purchase of library books.	1,500
Shri Mahila Arts College, Visnagar.	- do -	1,500
		<hr/>
	Total.	30,246

48. Sardar Patel.	Construction of hostel building under 4 year integrated teacher's training course.	80,000
	Grant for organising a Summer Institute in Mathematics for teachers from Higher Secondary School/PUC/Intermediate and Teachers Colleges.	10,000

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Sardar Patel.	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Chemistry for College teachers.	10,000
	Purchase of Scientific equipment for the various Science deptts.	72,500
	Payment of unassigned grant for 1967-68.	9,000
	Grant of extension in the Scholarship tenure of Research Scholarships in Science/Humanities.	1,175

Affiliated Colleges.

Vithalbhai Patel Mahavidyalaya, Vallabh Vidyanagar.	Basic grant for purchase of Library books.	2,500
Nalini & Arvind Arts College, Vallabh Vidyanagar.	- do -	2,500
H.M. Patel Institute of English, Vallabh-Vidyanagar.	- do -	1,500
Anand Arts College, Anand.	- do -	2,500
	Total.	2,01,675

49. Sambalpur.	Unassigned grant for the Fourth Plan period.	8,500
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Affiliated College.

Regional Engg. College, Rourkela.	Financial assistance to teachers for Research work in Humanities and Social Sciences.	250
	Total.	6,750

50. Saugar.	Purchase of Scientific equipment in the deptt. of Zoology.	20,000
	Grant towards the scheme of research in Social welfare entitled "Analysis of value and attitudinal reactions of prisoners towards corrective measures in jails."	7,000
	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary Schools/PUC/Intermediate and Training Colleges.	10,000
	Grant for organising a Summer Institute in Biology for college teachers.	10,000
	- do - Physics.	10,000

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Saugar Contd.

Extension in fellowship tenure of Senior Research fellowships in Engg. & Technology.	1,200
Award of Senior Research fellowships in Engg. & Technology.	2,006.45

Affiliated Colleges.

Swami Vivekanand Mahavidyalaya, Teonthar.	
Establishment of Text Book Library.	2,000
Arts & Commerce Degree College, Hanumana.	- do -
	2,000
Nehru Degree College, Burhar.	- do -
	2,000
Arts and Commerce College, Khurai.	- do -
	2,000
Govt. Degree College, Piparia.	- do -
Establishment of Student's-Aid-Fund.	739
J.N. Memorial College, Sohagpur.	- do -
	700
Total.	69,645.45

51. Saurashtra.	
Unassigned grant for the Fourth Plan period.	13,000

Affiliated Colleges.

Kamari Science College and Prataprai Arts College, Amreli.	
Basic grant for purchase of library books.	2,500
P.D.M. Graduate Teacher's College, Rajkot.	- do -
	1,500
Shri Somnath College, Veraval.	- do -
	1,500
Shri Shardapeeth Arts College, Dwarka.	- do -
	1,500
R.S. Teacher's College, Porbandar.	- do -
	1,500
K.H. Madwani Arts & Commerce College, Porbandar.	- do -
	2,500
Matu Shri Virbaima Mahila College, Rajkot.	- do -
	2,500
M.P. Shah Commerce & Law College, Surranderanagar.	- do -
	2,500
Shri U.N. Mehta Arts College, Morvi.	- do -
	1,500
Smt. G.T. Sheth Commerce College, Morvi.	- do -
	2,500

Saurashtra Contd.

Sarvodaya Kalwani Samaj Arts & Comm- erice College, Rajkot.	Purchase of books and equipment for Geography and Psychology deptts.	6,000
		39,000
Total.		39,000

52. South Gujarat.	Grant towards revision of Salary Scales of teachers in S.B. Garda Arts and P.K. Patel College of Commerce, Navsari as per II Plan Scales of pay.	2,194.11
	Unassigned grant for the Fourth Plan period.	6,500

Affiliated Colleges.

M.T.B. College, Surat.	Basic grant for purchase of Library books.	2,500
Arts & Science Coll- ege, Bardoli.	- do -	2,500
Total.		13,694.11

53. Shivaji.	Purchase of library books and journals (Humanities)	20,000
	Purchase of Press machinery.	40,000
	Grant for organising a Summer Institute in Biology for College teachers.	10,000
	Grant for organising a Summer Institute in Physics for teachers from Higher Secondary School/PUC/Intermediate and Training Colleges.	10,000
	Purchase of Living room furniture for Men Student's Hostel.	7,500
	- do - Women's Hostel.	5,625
	Construction of Teacher's Hostel.	6,000
	Grant towards the salary of a Professor appointed for the deptt. of Physics.	5,750
	Construction of building for the Botany deptt.	6,250

Affiliated Colleges.

Science College, Kared.	Basic grant for the purchase of library books.	2,500
Sangli College, Sangli.	- do -	2,500
Mudhoji College, Phaltan.	- do -	2,500
Arts & Commerce College, Wai.	- do -	2,500
Dayanand College of Arts & Science, Sholapur.	- do -	2,500

Shivaji Contd.

Chintamanrao College, Basic grant for the purchase of Library of Commerce, Sangli. books.	2,500.
Chhatrapati Shivaji College, Satara. - do -	2,500
S.P.K. Mahavidyalaya, Savantwadi. - do -	2,500
R.P. Gogate College, Establishment of Student's-Aid-Fund. Ratanagiri.	1,531.
Total.	1,32,656

54. Sri Venkateswara.

Grant for organising a Summer Institute in Mathematics for College teachers.	10,000
Grant for organising a Summer Institute in Physics (All India) for College teachers.	10,000
Purchase of "F.C. 150 Model Jeep Truck" for the deptt. of Home Science.	35,000
Total.	55,000

55. Udaipur.

Grant for organising a Summer Institute in Physics for teachers from Higher Secondary Schools/PUC/Intermediate & Training Colleges.	10,000
Contingency grant for Junior Research fellowships in Science.	1,000
Financial assistance to teachers for research work in Humanities and Social Sciences.	500
- do -	500

Affiliated Colleges.

M.B. College, Udaipur	Basic grant for the purchase of Library books.	2,500
Total.		14,500

56. Utkal.

Grant for organising a Summer Institute in Biology for teachers from Higher Secondary Schools/PUC/Intermediated and Training Colleges.	10,000
- do - Chemistry.	10,000
Appointment of Staff for U.G.C. unit.	7,938.92
Payment of unassigned grant for 1967-68.	8,000

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Utka Contd.

Affiliated Colleges.

Medical College,
Berhampur.

Financial assistance to teachers for
research work in Humanities and Social
Sciences and Sciences.

750

Bhadrak College,
Bhadrak.

Establishment of Student's-Aid-Fund.

3,000

Nimapara College,
Nimapara.

- do -

1,198

Total.

40,886.92

57. Vikram

Grant towards the Salaries of additional
staff approved during the II Five Year Plan.

10,000

Grant for organising a Summer Institute
in Chemistry for teachers from Higher
Secondary Schools/PUC/Intermediate and
Training Colleges.

10,000

Purchase of library books and journals
for Various Science depts.

20,000

Purchase of Scientific equipment for
various Science depts.

77,370

Affiliated Colleges.

Hamidia Arts and
Commerce College,
Bhopal.

Award of Scholarships for Honours and
Post-graduate Studies in Arabic and
Persian during 1967-68;

690

Shri Nehru Degree
College, Agar.

Establishment of Text Book Library.

2,000

Jawahar Lal Nehru
Smrati College,
Shujalpur.

- do -

7,500

Govt. Degree Coll-
ege, Ganj Basoda.

- do -

2,000

- do -

Establishment of Student's-Aid-Fund.

1,467

J.N.S. Post-gradu-
ate College,
Shujalpur.

- do -

997

Total.

1,32,024

58. Visva-Bharati.

Celebrations of Gandhi Centenary.

30,000

Conversion of Vichitra Open Auditorium
into a closed type examination cum
Auditorium Hall.

4,000

Construction of boundary wall around
grave yard.

5,000

Total.

39,000

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Institutions Deemed to be Universities

1. Birla Institute of Technology and Science, Pilani.	Purchase of equipment for the introduction of Post-graduate Course in Engg.	1,00,000
	Payment of recurring grant under the scheme of reorganisation of degree courses in pharmacy.	30,000
	- do - introduction of degree course in Chemical Engg.	11,500
	Payment of recurring grant for staff and maintenance under the scheme of expansion of Birla College of Engg. under the National Emergency.	1,50,000
	Purchase of Scientific equipment for Science departments.	59,000
	Financial assistance to teachers for research work in Humanities and Social Sciences.	500
	Total.	3,51,000
2. Gurukula Kangri Vishwavidyalaya.	Purchase of Library books and journals (Humanities).	5,000
	Grant towards the salary of staff appointed under development schemes(H).	30,000
	Purchase of Scientific equipment for Chemistry deptt.	1,000
	Total.	36,000
3. Indian Institute of Science, Bangalore.	Award of Junior Research fellowships in Science.	2,036.48
	- do -	2,122.58
	- do -	1,900
	Extension in fellowship tenure of Junior Research fellowships in Science.	600
	Contingent grant for Junior Research fellowships in Engg. & Technology.	849.91
	Extension in fellowship tenure of Senior Research fellowships in Engg. and Technology.	3,187.10
	Total.	10,696.07
4. Indian School of International studies, New Delhi.	Grant towards the Salary of additional staff.	80,000
	Award of Senior Research fellowships in Humanities and Social Sciences.	2,693.55
Total.	82,693.55	

p.t.o.

5. Kashi Vidyapith.	Grant towards the salary of additional staff approved during IV Five Year Plan.	5,000
	Construction of Social Work College building.	10,000
	Utilisation of Services of retired teachers.	1,275.86
	Financial assistance for the establishment of Non-Resident Student's Centre.	5,000
	Total.	21,275.86

Non-Plan

1. Aligarh Muslim University.	Maintenance grant for 1967-68.	4,03,122.24
	Total.	4,03,122.24

2. Banaras Hindu University.	Maintenance grant for 1967-68.	1,00,000
	Total.	1,00,000

3. Delhi.	Maintenance grant for 1967-68.	30,000
	- do - in respect of Delhi School of Social Work.	89,000
	- do - Miranda House.	1,00,000
	- do - Institute of Post-graduate (Evening) studies.	50,000

Constituent Colleges.

Janki Devi Mahavidyalaya, New Delhi.	Maintenance grant for 1967-68.	70,000
Modern College for Women, New Delhi.	- do -	75,000
Hastinapur College, New Delhi.	- do -	55,000
- do - (Evening)	- do -	30,000
Sanatan Dharma College, Dhaula Kuan, New Delhi.	- do -	50,000
Ramjas College, Delhi.	- do -	85,000
Deshbandhu College, Kalkaji, New Delhi.	- do -	1,00,000
- do - (Evening).	- do -	25,000
Mata Sundri College for Women, New Delhi.	- do -	25,000
Daulat Ram College, Delhi-7.	- do -	75,000
Lady Irwin College, New Delhi.	- do - 1965-66	74,762
Dyalsingh College, Lodi Road, New Delhi.	- do - 1967-68	74,000
S.G.T.B. Khalsa College, New Delhi.	- do -	1,31,000

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Delhi Contd.

Kirori Mal College, Maintenance grant for 1967-68. Delhi.		2,17,000
Rajdhani College, Kirtinagar, New Delhi.	- do -	1,36,000
Hindu College, Delhi.	- do -	81,000
- do -	- do - 1965-66	8,442
Shyam Lal College, Shahdara, Delhi.	- do - 1967-68	74,000
Shri Ram College, of of Commerce, Delhi-7.	- do -	1,23,000
P.G.D.A.V. College (Day), New Delhi.	- do -	82,000
Women's College, Timarpur, Delhi.	- do -	89,000
St. Stephen's College, Delhi.	- do -	13,000
Ram Lal Anand College, New Delhi.	- do -	37,000
Lady Shri Ram College, for Women, New Delhi.	- do -	1,96,000
Indraprastha College for Women, New Delhi.	- do -	1,05,000
Hans Raj College, Delhi-7.	- do -	2,05,000
Delhi College, Ajmeri Gate, Delhi.	- do -	2,68,000
Lady Irwin College, New Delhi.	- do -	1,56,000
Dyalsingh College (Evening), New Delhi.	- do -	47,000
P.G.D.A.V. College (Evening), New Delhi.	- do -	58,000
Delhi College (Evening), Ajmeri Gate, Delhi.	- do -	69,000
	Total.	<hr/> 31,03,204 <hr/>
	Total Plan.	97,24,883.39
	Total Non-Plan.	36,06,326.24
	Grand Total of Plan and Non-Plan.	<hr/> 1,33,31,209.63 <hr/>

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 4 : To receive a statement of expenditure incurred by University Grants Commission during 1967-68 (Upto 31st January, 1968).

I. <u>Section I Non-Plan Projects</u>	<u>Budget Provision (1967-68)</u>	<u>Expenditure incurred (upto 31st January 1968)</u>
A. Administration Charges	27,00,000	20,99,285
B. Block Grants to Central Universities.	5,33,00,000	5,30,88,264
C. Maintenance Grants to Constituent/Affiliated Colleges of Delhi University.	1,75,00,000	1,35,73,450
D. Grants to Central Universities for Schemes not covered under Block Grants.	12,000	6,000
Total Section I Non-Plan Projects.	Rs. 7,35,12,000	Rs. 6,87,16,999
II. <u>Section II Plan Projects</u>		
A. Grants to Universities for Humanities.	94,00,000	90,97,050
B. Grants to Universities for Science.	2,20,00,000	1,99,67,927
C. Grants to Universities for Engineering & Technology.	1,61,00,000	1,38,39,573
D. Grants to Constituent & Affiliated Colleges.	1,56,40,000	91,19,972
E. Grants to Universities for Miscellaneous Schemes.	3,92,10,000	2,41,12,583
F. Miscellaneous Expenditure incurred by U.G.C. on Seminars Conferences etc.	7,50,000	4,62,039
	<u>10,31,00,000</u>	<u>7,68,69,144</u>
Total Sections I and II	17,66,12,000	14,53,16,143

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Section III - Expenditure from Grants received from Government of India and other sources for specific purposes.

1)	Grants to Universities and other expenditure for introduction of General Education (out of grants received from Ford Foundation).	67,656
ii)	Grants to Universities for promoting advanced studies in the subject of Community Development Cooperation and Panchyati Raj (out of grants received from Ministry of Community Development & Cooperation).	1,14,500
iii)	Grants to Universities for organising Summer Institutes for School teachers - allocable to N.C.E.R.T.	15,67,002
iv)	Grants to Universities for Hindi Translation Cell (out of grants received from Ministry of Education)	6,00,000
v)	Expenditure on the visit of the Vice-Chancellors Delegation (out of grants received from Ministry of Education).	7,445
vi)	Expenditure on the visit of the Russian Delegation (out of grants received from Ministry of Education).	15,572
vii)	Expenditure incurred in connection with the visit of Prof. Frank Worell (out of grants received from Ministry of Education).	14,507
viii)	Grants to Universities for construction of Gandhi Bhawans (out of Gandhi Smarak Nidhi's Share)	5,000
Total Section III		23,91,682
Total Section I, II and III		14,77,07,825

Section IV - Deposits and Advances

i)	Conveyance Advance	30,000
ii)	Festival Advance	12,305
iii)	House Building Advance	21,000
iv)	Fan Advance	600
Total Section IV		63,905

Expenditure during 1966-67 upto 31.1.1967 was as under:

	Budget Provision 1966 - 67	Expenditure upto 31.1.1967
Section I Non-Plan Projects	4,95,12,000	4,15,32,072
Section II Plan Projects (General)	9,97,39,785	7,33,83,310
Section II Plan Projects (Engg. & Tech.)	1,55,07,735	1,00,85,185
Total	16,47,59,520	12,50,00,567

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Meeting:
Dated 6th March, 1968.

Item No.5: To receive a note on the number and location of the summer science institutes to be organised during the summer 1968 for school and college teachers.

The Commission at its meeting held on 4th October 1967 (Item No.58) was informed about the proposed number of summer science institutes to be held during 1968-69. An important feature of this year's programme has been the introduction of a proposal grant system agreed upon in the 'Operational Work Plan' of the Programme Agreement signed between the Government of India and the U.S. Agency for International Development. In fulfilment of the clause in the programme agreement, proposals were invited from the universities and other institutions for organising summer science institutes for school and college teachers. These proposals were evaluated by the National Council for Science Education Panels in different disciplines on 7th & 8th November 1967. As recommended by the Panels, 113 proposals were accepted, the subject-wise break-up of which is given below:

<u>Discipline</u>	<u>School level</u>	<u>College level</u>
Mathematics	14	17
Biology	12	15
Chemistry	15	14
Physics	15	11
Total	56	57

The universities were informed about the acceptance of their proposals by middle of December 1967, i.e. about 4 to 5 months in advance of the commencement of the institutes. This lead time is expected to enable the directors of the summer institutes for better planning of the institute programme, proper selection of participants and pre-institute contact with selected participants.

X Enclosed Separately X

Brochures indicating the locations of these institutes have been printed and distributed to the Institute Directors and Institutions (Appendices I & II). Some 4500 school and college teachers are expected to receive the benefit of training under this programme this summer. The following table indicates the number of participants who have undergone training at the summer science institutes during the last five years:

<u>Year</u>	<u>School Level</u>	<u>College Level</u>
1963	154	1659
1964	640	659
1965	1829	1052
1966	1676	1235
1967	2381	1867
	6680	4813

These Institutes are being organised in collaboration with the U.S. National Science Foundation and the U.S. Agency for International Development in cooperation with 41 universities. The services of U.S. Consultants, who are conversant with the summer institutes and other follow-up activities in the United States, would be made available for only such institutes which have specifically requested for their participation.

As recommended by the National Council for Science Education Panels, the following Summer Institutes for college teachers will be organised on an all-India basis:

<u>Name of the University</u>	<u>Field</u>
Banaras Hindu University	Ecology
Osmania University	Genetics
Kerala University	Comparative Endocrinology.

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Name of the University	Field
Aligarh Muslim University	Organic Chemistry
Delhi University	Nutrition
Delhi University	Modern Algebra and Operational Research.
Rajasthan University	Fluid Dynamics
Delhi University	Solid State Physics
Sri Venkateswara University	Electronic Instrumentation

During 1967 books and locally fabricated equipment for the summer institutes were supplied by the US AID out of the 'Trust Funds' made available under the programme agreement. The Ministry of Finance is not generally in favour of utilisation of 'Trust Funds' for such items and hence no provision for trust funds have been suggested in the draft programme agreement, which is under the consideration of the Ministries of Education and Finance. The responsibility for the procurement of books and locally fabricated equipment has been entrusted to the directors of the institutes. The Commission has made available Rs.10,000 to each institute director as an advance grant to enable him to obtain books and essential laboratory supplies in time for the institutes.

Besides the above, 4 summer science institutes for secondary science teachers (on each in Biology, Physics, Chemistry and Mathematics) will be conducted in collaboration with the British Council and the U.K. Government of Overseas Development under the auspices of the Madras, Meerut, Poona and Jadavpur universities respectively. The British Council will provide technical assistance and supply equipment, developed by the Nuffield project in U.K. on a grant basis.

As important feature of the college level summer institutes during 1968 is that commodities worth \$ 322,732.04 would be imported from the United States out of the \$ 12 million loans. These lists have been drawn out on the advice of the NCSE Panels and the NSF Science Liaison Staff. Of these \$ 200,000 have been allocated for Biology, Chemistry and Physics institutes at the rate of \$ 5000 to strengthen science departments. Each participant at the college level Chemistry and Physics institute will be supplied with a Heath Electron Kit costing \$ 82 to be taken to his home institution for use in the regular class room teaching. The title of the kite will be in the name of the institutions and not individual teachers. The possession of the kit would enable the teacher-participant to fruitfully utilise his summer institute training. The detailed list of commodities to be imported from the United State for the college level institutes is attached (Appendix III). In addition to this imported equipment each college level Physics institute will be given one set of microwave test-bench kit which has been fabricated at the National Physical Laboratory. These kits would be very valuable to the Physics department for demonstrating important experiments in physics at the summer institutes and also in the regular class room teaching.

X enclosed Separately

Since many of the Directors of the institutes have had experience in conducting programmes in the past and in order to effect economy, it is proposed not to hold an orientation meeting of the Directors this year. Experienced Directors would offer assistance in planning the programme, if requested by the Directors of the institutes who would be organising summer institutes for the first time.

It has been reported to the Commission at its meeting held on (item No. 59) 4th October, 1967 that out of the \$ 4.57 million allocated to the U.G.C. \$ 1 million would be utilised for the summer institutes and the follow up activities. The Government of India has been requested to provide counterpart rupee funds, i.e. Rs.75 lakhs against equipment to be purchased out of this provision. Since the equipment to be purchased out of the provision is to be given on a grant basis to the organising institutions, the Government of India in the Ministry of Education has written that they would be taking up this matter with the Planning Commission for obtaining their concurrence for treating this equipment as 'out right' grants to the universities. Further developments, if any, in this regard will be reported to the Commission.

The matter is placed before the Commission for consideration.

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APPENDIX I 6
Item No. 5

**SUMMER
SCIENCE
INSTITUTES**

1968

for

COLLEGE TEACHERS

UNIVERSITY GRANTS COMMISSION
NATIONAL COUNCIL FOR SCIENCE
EDUCATION
U. S. NATIONAL SCIENCE FOUNDATION
U. S. AGENCY FOR INTERNATIONAL
DEVELOPMENT

NEW DELHI - INDIA

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1. Introduction

The Summer Science Institute Project for college teachers of science and mathematics initiated by the University Grants Commission in 1964 is entering the fifth year in 1968. The institutes have been providing opportunities for teachers not only to familiarise themselves with current developments but also to find inspiration and stimulation through personal contacts with well-known scientists and teachers and colleagues from other parts of the country. Through collaboration with National Science Foundation of U.S.A. the services of American college professors are expected to be available at some of these institutes. It is hoped that, as in the past, the colleges and universities will respond to the institutes adequately and in the process be encouraged to modernise their courses and evolve new curricula and methods of instruction aimed at meeting the long-felt needs of college teachers in the sciences throughout the country.

2. Objectives

The objectives of the institutes are:

- (a) to provide supplementary training to the college teachers in sciences and to strengthen their mastery over the subjects;
- (b) to refresh their minds with new ideas and to make them familiar with the recent advances in their respective subjects;
- (c) to gain a better understanding of the basic and modern concepts in science and mathematics to enable the teachers to learn and teach science as a process of discovery; and
- (d) to provide the opportunity, means and encouragement for discussion amongst the participant-teachers with similar backgrounds, interests and

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problems so as to create mutual understanding of each other's teaching problems.

3. Summer Science Institutes (1964-67)

During the period 1964-67, 130 summer institutes were organised at various universities attended by 4,813 teachers in mathematics, physics, chemistry and biology. The number of institutes held during this period and the enrolment at the institutes are given below:

Year	No. of Participants				Total No. of Institutes
	Mathe- matics	Phy- sics	Chemis- try	Bio- logy	
1964	163(4)*	166(4)	162(4)	168(4)	16
1965	269(7)	258(8)	248(7)	277(7)	29
1966	326(9)	308(9)	344(9)	257(7)	34
1967	560(14)	375(11)	522(14)	410(11)	51
Total	1318	1107	1276	1112	130

The total number of American consultants associated with the academic programme of the institutes was 467.

4. Programme for 1968

In the summer of 1968 it is proposed to organise 54 summer institutes:

Biology	13
Chemistry	14
Mathematics	16
Physics	11
Total	<u>54</u>

*The figures in brackets indicate the number of institutes subjectwise.

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Some of the 'special' institutes will enrol teachers on an all-India basis. A few institutes in some universities will enrol primarily teachers from the constituent or affiliated colleges in order to bring about a smooth switchover to new curricula in courses being introduced there.

5. Programme of Courses

The summer institutes will generally offer a programme of courses in which lectures of two hours duration are included in the morning session and two to three hours laboratory work in the afternoon session. Participants in the institute will have an opportunity to confer with the members of the staff and obtain their advice on such matters as teaching aids, methods of presentation of teaching of subject-matter, planning courses and other problems which may be related to their work. These institutes will encourage group participation in all planned activities.

6. Eligibility

Teachers from private and government colleges are eligible to apply for admission to the institutes through the heads of their institutions. Preference will be given to teachers who have taught for at least two years and are expected to continue teaching as their career. Teachers who attended summer institutes in previous years will not, generally, be admitted. However, exception can be made by the Institute Director at his discretion in respect of special and advanced level institutes. Enrolment at each institute will be about 45 participants.

Teachers from government colleges may send their applications through proper channel and an advance copy to the Director of the Summer Institute concerned. The Directors of Summer Institutes will approach the proper educational authorities, wherever necessary, for sanctioning duty leave etc., in respect of the selected candidates. The University Grants Commission has requested the State education authorities

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seeking their cooperation in the organisation of the summer institutes.

The participants before attending the institute may obtain a clearance from the heads of their institutions/educational authorities regarding their period of absence at the institute, duty leave etc.

7. Applications

Application forms and particulars may be obtained by the participants from the Institute Directors as given in section 9. All admissions to the institutes will be administered by the universities according to the criteria of selection laid down by them in consultation with the University Grants Commission. Early submission of applications is urged to guarantee consideration for selection in the institutes. In cases where unforeseen difficulties arise, applications may be considered by the Directors until the beginning of the institute. Candidates will be informed about their selection by the Directors well in time so as to enable them to complete their travel formalities etc. The application form duly filled in may be sent to the appropriate Director of the institute. The last date for the receipt of applications for admission to institutes is six-seven weeks prior to the commencement of the institutes.

8. Financial Assistance

Participants will be paid travel fare to and fro* for journey by rail or bus or other means of transport in vogue as the case may be. They will be given free boarding and lodging and an *ad hoc* allowance of Rs. 125 for out of pocket expenses for an institute-duration of 6 weeks or Rs. 3 per day for institutes having lesser duration. Participants are required to

*From the participant's home or his institution to the Summer Institute.

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stay at the campus and make use of the boarding and lodging arrangements to be provided by the institute authorities.

9. Location and Duration

The location and duration of the summer institutes for college teachers are given in the following pages:

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

BIOLOGY

NORTHERN ZONE

1. Banaras Hindu University, Varanasi. 13 May-22 June
2. Delhi University, Delhi. 1 June-11 July
3. Gorakhpur University, Gorakhpur. 13 May-22 June
4. Panjab University, Chandigarh. 1 June-11 July

WESTERN ZONE

5. Gujarat University, Ahmedabad. 6 May-15 June
6. Poona University, Poona. 29 April-8 June
7. Rajasthan University, Jaipur. 13 May-22 June
8. Saugar University, Sagar. 1 June-11 July
9. Shivaji University, Kolhapur. 13 May-22 June

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of Summer Institutes

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
All India (Ecology)	Prof. R. Mishra, Head of the Department of Botany, Banaras Hindu University.
Delhi and U.P.	Prof. B.R. Seshachar, Head of the Department of Zoology, Delhi University.
Bihar, West Bengal, Assam, NEFA, Tripura, Manipur and Nagaland	Prof. K.S. Bhargava, Head of the Department of Botany, Gorakh- pur University.
J. & K., Himachal Pradesh, Haryana and Punjab	Prof. G.P. Sharma, Head of the Department of Zoology, Panjab University.
Gujarat	Prof. J.J. Chinoy, Director, Uni- versity School of Science, Ahmedabad.
Maharashtra	Dr. G.T. Tonapi, Department of Zoology, Poona University.
Rajasthan	Dr. P.N. Srivastava, Depart- ment of Zoology, Rajasthan University.
Madhya Pradesh and Orissa	Prof. S.B. Saxena, Head of the Department of Botany, Saugar University.
Maharashtra and Goa	Prof. D.N. Kamath, Head of the Department of Zoology, Shivaji University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

SOUTHERN ZONE

- | | | |
|-----|-----------------------------------|---------------------|
| 10. | Mysore University,
Mysore. | 22 April-
1 June |
| 11. | Osmania University,
Hyderabad. | 29 April-
8 June |
| 12. | Osmania University,
Hyderabad. | 29 April-
1 June |
| 13. | Kerala University,
Trivandrum. | 29 April-
1 June |

CHEMISTRY

EASTERN ZONE

- | | | |
|-----|--|---------------------|
| 14. | Jadavpur University,
Calcutta-32. | 29 April-
8 June |
| 15. | Utkal University,
(Ravenshaw College, Cuttack). | 13 May-
22 June |

NORTHERN ZONE

- | | | |
|-----|--|--------------------|
| 16. | Banaras Hindu University,
Varanasi. | 13 May-
22 June |
| 17. | Panjab University,
Chandigarh. | 13 May-
22 June |

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Mysore and Kerala	Prof. K.N. Narayan, Head of the Department of Botany, Mysore University.
Andhra and Madras	Prof. M.R. Suxena, Head of the Department of Botany, Osmania University.
All India (Genetics)	Prof. O.S. Reddy, Department of Genetics, Osmania University.
All India (Comparative Endocrinology)	Prof. K.K. Nayar, Head of the Department of Zoology, Kerala University.
West Bengal, Assam, Manipur, Tripura, Nagaland and NEFA	Dr. (Miss) K.K. Rohatgi, Department of Chemistry, Jadavpur University.
Orissa and Bihar	Prof. M.K. Raut, Head of the Department of Chemistry, Ravenshaw College, Cuttack.
U.P. and Delhi	Prof. G.B. Singh, Head of the Department of Chemistry, Banaras Hindu University.
Punjab, J. & K., Himachal Pradesh and Haryana	Prof. R.C. Paul, Head of the Department of Chemistry, Panjab University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

18. Aligarh Muslim University,
Aligarh. 13 May-
22 June

19. Delhi University,
Delhi. 29 April-
8 June

WESTERN ZONE

20. Nagpur University,
Nagpur. 29 April-
8 June

21. Poona University,
Poona. 13 May-
22 June

22. Rajasthan University,
Jaipur. 29 April-
8 June

23. Sardar Patel University,
Vallabh Vidyanagar. 6 May-
15 June

SOUTHERN ZONE

24. Annamalai University,
Annamalainagar. 22 April-
1 June

25. Andhra University,
Waltair. 13 May-
22 June

26. Mysore University,
Mysore. 22 April-
1 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
All India	Prof. S.M. Fazlur Rahman, Head of the Department of Chemistry, Aligarh Muslim University.
All India (Food and Nutrition for Home Science Teachers)	Dr. (Miss) D. Deulkar, Directress, Lady Irwin College, New Delhi.
Madhya Pradesh	Prof. G.V. Asolkar, Principal, Institute of Science, Nagpur.
Maharashtra and Goa	Prof. H.J. Arnikar, Head of the Department of Chemistry, Poona University.
Rajasthan	Prof. R.C. Mehrotra, Head of the Department of Chemistry, Rajasthan University.
Gujarat	Prof. R.D. Patel, Head of the Department of Chemistry, Sardar Patel University.
Madras and South Kerala	Prof. V. Baliah, Head of the Department of Chemistry, Annamalai University.
Andhra	Prof. G. Gopala Rao, Head of the Department of Chemistry, Andhra University.
Mysore and North Kerala	Prof. H. Sanke Gowda, Head of the Department of Chemistry, Mysore University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

27. Osmania University,
Hyderabad. 13 May-
22 June

MATHEMATICS

EASTERN ZONE

28. Dibrugarh University,
Dibrugarh. 13 May-
22 June

29. Jadavpur University,
Calcutta-32. 29 April-
8 June

NORTHERN ZONE

30. Meerut University,
Meerut. 13 May-
22 June

31. Panjab University,
Chandigarh. 29 April-
8 June

32. Delhi University,
Delhi. 13 May-
22 June

33. Delhi University,
Delhi. 13 May-
22 June

34. Lucknow University,
Lucknow. 6 May-
15 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
College and University Teachers of Osmania University	Prof. N.V. Subba Rao, Principal, University College of Sciences, Osmania University, Hyderabad.
Assam, Nagaland, NEFA, Manipur and Tripura	Prof. A.C. Srivastava, Head of the Department of Mathematics, Dibrugarh University.
Bihar, Orissa and West Bengal	Dr. R.N. Bhattacharya, Department of Mathematics, Jadavpur University.
Sequential	Prof. J.N. Kapoor, Head of the Department of Mathematics, Indian Institute of Technology, Kanpur.
Punjab, J. & K., Haryana and Himachal Pradesh	Prof. S.K. Trehan, Department of Mathematics, Panjab University.
All India (Modern Algebra and Operational Research)	Prof. R.S. Verma, Head of the Department of Mathematics, Delhi University.
Sequential	Prof. R.S. Verma, Head of the Department of Mathematics, Delhi University.
U.P. and Delhi	Prof. A.R. Roy, Head of the Department of Statistics, Lucknow University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

WESTERN ZONE

35. Jabalpur University,
Jabalpur. 13 May-
22 June

36. Jodhpur University,
Jodhpur. 13 May-
22 June

37. M.S. University of Baroda,
Baroda. 29 April-
8 June

38. Poona University,
Poona. 22 April-
1 June

39. Rajasthan University,
Jaipur. 20 May-
29 June

SOUTHERN ZONE

40. Annamalai University,
Annamalainagar. 29 April-
8 June

41. Kerala University,
Trivandrum. 22 April-
8 June

42. Madurai University,
Madurai. 22 April-
8 June

43. Sri Venkateswara University,
Tirupati. 20 May-
29 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
---	-----------------

4	5
---	---

Madhya Pradesh Dr. T. Pati, Head of the Department of Mathematics, Jabalpur University.

Rajasthan Prof. R.S. Kushwaha, Department of Mathematics, Jodhpur University:

Gujarat Prof. U.N. Singh, Head of the Department of Mathematics, M.S. University of Baroda.

Maharashtra and Goa Prof. V.S. Huzurbazar, Department of Mathematics and Statistics, Poona University.

All India (Functional Analysis) Prof. G.C. Patni, Head of the Department of Mathematics, Rajasthan University.

Andhra Pradesh Dr. R. Ramachandran, Reader, Department of Mathematics, Annamalai University.

Kerala Head of the Department of Mathematics, Kerala University.

Madras Prof. M. Venkataraman, Head of the Department of Mathematics, Madurai University.

Mysore Prof. P.S. Rau, Head of the Department of Mathematics, Sri Venkateswara University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

PHYSICS

EASTERN ZONE

44. Gauhati University, Gauhati. 13 May-22 June
45. Jadavpur University, Calcutta-32. 29 April-8 June

NORTHERN ZONE

46. Delhi University, Delhi. 20 May-29 June

WESTERN ZONE

47. Birla Institute of Technology & Science, Pilani. 20 May-29 June
48. M.S. University of Baroda, Baroda. 6 May-15 June
49. Nagpur University, Nagpur. 20 May-29 June
50. Saugar University, Sagar. 6 May-15 June

SOUTHERN ZONE

51. Andhra University, Waltair. 6 May-15 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5

Assam, Nagaland, Manipur, Tripura and NEFA Prof. P.C. Mahanta, Head of the Department of Physics, Gauhati University.

West Bengal, Bihar and Orissa Dr. T. Roy, Reader, Department of Physics, Jadavpur University.

All India (Solid State Physics) Prof. F.C. Auluck, Department of Physics, Delhi University.

U.P., J. & K., Haryana, Himachal Pradesh, Punjab and Delhi Prof. S.Y. Tewari, Head of the Department of Physics, Birla Institute of Technology and Science.

Gujarat and Rajasthan Prof. N.S. Pandya, Head of the Department of Physics, M.S. University of Baroda.

Maharashtra and Goa Prof. C. Mande, Head of the Department of Physics, Nagpur University.

Madhya Pradesh Prof. D.R. Bhawalkar, Head of the Department of Physics, Saugar University.

Andhra and Madras Prof. B. Ramachandra Rao, Head of the Department of Physics, Andhra University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3
52.	Kerala University Centre, Alwaye-4.	29 April- 8 June
53.	Mysore University, Mysore.	22 April- 1 June
54.	Sri Venkateswara University, Tirupati	20 May- 29 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Kerala	Prof. K. Venkateswarlu, Department of Physics, Kerala University Centre, Alwaye-4.
Mysore	Prof. S. Chandrasekhar, Head of the Department of Physics, Mysore University.
All India (Electronic Instrumentation)	Prof. J. Bhimasenachar, Head of the Department of Physics, Sri Venkateswara University.

N.B.:—Sequential institutes are for participants who have already attended an institute at the same place and under the same Director.

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SUMMER INSTITUTES IN SCIENCE AND MATHEMATICS FOR COLLEGE TEACHERS

Application Form

Institute in.....at.....

1. Full Name (in block letters).....
2. Designation
3. Father's Name.....
4. Address to which reply should be sent
(in block letters)
5. Permanent Address
6. Date of Birth.....
7. Sex : Male/Female.....
8. Marital Status : Married/Unmarried.....

9. Teaching/Research/Professional Experience

10. Mention if you have participated in any research seminar, Summer Institute, etc. during the previous years.

11. Academic Record :

Examination Passed	Subjects		Year of passing	Class, rank, distinction, etc.	University or Institution	Other Information
	Main	Subsidiary				
B.A./B.Sc. Pass/ Two-year Honours/ Three-year Honours						
M.A./M.Sc.						
Other certificates, diplomas, degree, etc.						

Dated.....

Place

Signature of the Applicant.....

12. Recommendation of the forwarding authority.

Dated.....

Signature

Designation and address.....

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SUMMER INSTITUTES IN SCIENCE AND MATHEMATICS FOR COLLEGE TEACHERS

Application Form

Institute in.....at.....

1. Full Name (in block letters).....
2. Designation
3. Father's Name.....
4. Address to which reply should be sent (in block letters).....
5. Permanent Address.....
6. Date of Birth.....
7. Sex : Male/Female.....
8. Marital Status : Married/Unmarried.....
9. Teaching/Research/Professional Experience.....

10. Mention if you have participated in any research seminar, Summer Institute, etc. during the previous years.

11. Academic Record :

Examination Passed	Subjects		Year of passing	Class, rank, distinction, etc.	University or Institution	Other Information
	Main	Subsidiary				
B.A./B.Sc. Pass/ Two-year Honours/ Three-year Honours						
M.A./M.Sc.						
Other certificates, diplomas, degree, etc.						

Dated.....
Place

Signature of the Applicant.....

12. Recommendation of the forwarding authority.

Dated.....

Signature

Designation and address.....

1968

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S M T W T F S

APRIL

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SUMMER (168)
SCIENCE
INSTITUTES

1968

for

**TEACHERS FROM
SECONDARY SCHOOLS/PUC
INTERMEDIATE / TRAINING
COLLEGES**

NATIONAL COUNCIL OF EDUCATIONAL
RESEARCH AND TRAINING
UNIVERSITY GRANTS COMMISSION
NATIONAL COUNCIL FOR SCIENCE
EDUCATION
U. S. NATIONAL SCIENCE FOUNDATION
U. S. AGENCY FOR INTERNATIONAL
DEVELOPMENT

NEW DELHI - INDIA

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1. Introduction

The Education Commission in its report has stressed the importance of science and mathematics. "During the last few decades, the conceptual framework of physics has undergone a drastic change and this should be reflected in the high school physics curriculum. Similarly, in chemistry the stress hitherto laid on memorisation of facts, formulae, processes and compounds should give place to an emphasis on the unifying concepts in the subject. It is necessary to highlight the applications of chemistry in industry and daily life and its growing importance in our developing economy. Again, the present content of the school course in biology as a method of enquiry by means of accurate and confirmable observations, quantitatively and mathematically analysed, and controlled experimentation should be impressed on the minds of the young learners." The summer institute programme is expected to assist the teachers in revitalising the school curriculum as recommended by the Education Commission.

2. Reorientation of Teachers

In the scheme of reorienting science education, the science teacher occupies a central position. The summer institutes are being organised with a view to creating such opportunities by bringing together groups of science teachers in a university or college campus for a period of about six weeks during the summer vacation, and making available to them modern textbooks, improved laboratory techniques and teaching aids, under the supervision of competent directing staff. This will also help to bring the school and university teachers together in a common endeavour to improve the quality and standards of science education.

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3. Objectives

The objectives of the institutes are:

- a) to establish channels of communications between schools and universities;
- b) to improve the subject matter competence of participating teachers by acquainting them with recent developments in their subjects;
- c) to enable teachers to develop a better understanding of the basic concepts in their fields of specialisation;
- d) to enable teachers to conduct experiments wherever possible, with simple and improvised apparatus, and to encourage further experimentation along suggested lines leading to a consideration of theoretical ideas growing from experiments;
- e) to strengthen the capacity of the teachers for motivating able students to develop an aptitude for research;
- f) to stimulate interest in teachers by bringing them into contact with eminent men in the field of their study; and
- g) to enable teachers to exchange views with their colleagues in the profession and thus promote a great understanding and appreciation of each others' teaching problems.

4. Summer Science Institutes (1963-67)

During the period 1963-67, the University Grants Commission in collaboration with the National Council of Educational Research and Training and United States Agency for International Development organised at various universities 172 summer institutes in science and mathematics for teachers from high/higher secondary schools/PUC/intermediate colleges attended by 6680 teachers in mathematics, physics, chemistry and biology. The number of institutes

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held during this period and the enrolment at the institutes are given below:

Year	No. of participants				Total No. of institutes
	Mathe- matics	Phy- sics	Chemi- stry	Bio- logy	
1963	34(1)*	43(1)	38(1)	39(1)	4
1964	169(4)	170(4)	148(4)	153(4)	16
1965	616(16)	488(13)	464(13)	261(7)	49
1966	490(12)	468(12)	410(11)	308(8)	43
1967	747(15)	572(16)	580(16)	482(13)	60
Total	2,056	1,741	1,640	1,243	172

The total number of American consultants associated with the academic programme of the institutes was 297.

5. Programme for 1968

In the summer of 1968, it is proposed to organise 56 summer institutes as follows:

Biology	12
Chemistry	15
Mathematics	14
Physics	15
Total	56

6. Programme of Courses

Mathematics

In Mathematics, texts and commentaries prepared by School Mathematics Study Group (SMSG) in U.S.A. will be made use of. These deal with the nature of Mathematics. Probability and Statistics, Vector, Algebra, Linear Spaces, Matrices, Theory of Numbers etc. In each case the subject matter impinges upon

*Figures in parentheses indicate the number of institutes subjectwise.

(123)

the material at the secondary level. The major emphasis is placed on developing real understanding of the foundations of and logical relationships within Mathematics. The main purpose of problems is to test whether the student has sufficient grasp of basic concepts and relations to be able to work out his own solutions and applications. Thus new dimensions have been added and the older concepts have been reorganised and extended in the light of the modern view that the major emphasis on Mathematics is concerned with abstract patterns of thought.

Physics

The proposed institutes will have for their use the new materials developed in U.S.A. during the past few years for use in secondary schools. For the Physics Programme the materials produced by the Physical Science Study Committee (PSSC) in the U.S.A. will be used. The PSSC Physics Course consists of four closely interconnected parts. Part I is the general introduction of time, space and matter. Part II deals with optics and waves where both the Particle Theory and Wave Theory are introduced to explain various phenomena. Part III is on mechanics. There is a chapter on heat, molecular motion and the conservation of energy. There is no mention of the specific heat of gases and calorimetry, expansion, coefficients and such topics. Part IV is on electricity and atomic structure, quantum mechanics and relativity theory. Here the student is led to see that Physics is an integrated subject of study, whose frontiers are changing constantly. The units are in the M.K.S. system instead of the usual C.G.S. system.

Chemistry

In Chemistry, the materials prepared by Chemical Education Material (CHEM) Study Group in U.S.A. are being used. Here Chemistry is presented as an experimental science. Unifying principles are developed with the laboratory work providing the base for this development. To see these principles grow out

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of observations made in the laboratory gives the students an exciting picture of how all scientific advances begin. Thus the habit of questioning and of seeking understanding rather than being satisfied with blind acceptance of dogmatic assertions will be cultivated in the students. Also, such an approach frees the students from the drudgery of endless memorisation of innumerable chemical facts.

Biology

With the assumptions that modern advances in Biology are significant and important for secondary school teachers the Biological Sciences Curriculum Study (BSCS) in the U.S.A. prepared new materials presenting a unified, up-to-date treatment of Biology for Secondary Schools. Three versions of high school biology textbooks and laboratory guides are available—the green version, the yellow version and the blue version. The green version lays emphasis on ecology and evolution, the interaction of populations, communities and the world biome. The yellow version lays emphasis on the cellular approach to plants, animals and micro-organisms. The blue version lays stress on the molecular and cellular levels.

7. Eligibility

As a rule, teachers who attended summer institute in previous years will not be admitted. However, exceptions can be made at the discretion of the Institute Director in regard to teachers teaching more than one subject at school and who have already attended an institute in one subject and desirous of attending institute in another subject if it is of direct concern and use to them.

Enrolment at each institute will be about 45 participants.

Teachers will send their applications through the head of the institutions to the appropriate Institute Directors as indicated in section 10. The Directors

of Summer Institutes will approach proper educational authorities wherever necessary for sanctioning duty leave etc., in respect of the selected candidates. The National Council for Educational Research and Training has requested the State educational authorities seeking their cooperation in the organisation of the Summer Institutes.

The participants before attending the institute may obtain a clearance from the heads of their institutions/ educational authorities regarding their period of absence at the institute, duty leave etc.

8. Applications

Application forms and particulars may be obtained by the participants from the Institute Directors as given in the section 10. All admissions to the institutes will be administered by the universities according to the criteria of selection laid down by them in consultation with the University Grants Commission. Early submission of applications is urged to guarantee consideration for selection in the institutes. In cases where unforeseen difficulties arise, applications may be considered by Directors until the beginning of the institute. Candidates will be informed about their selection by the Directors well in time so as to enable them to complete their travel formalities etc. The application forms duly filled in may be sent to the appropriate Director of the institute. The last date for the receipt of applications for admission to the institutes is six-seven weeks prior to their commencement.

9. Financial Assistance

Participants will be paid travel fare to and fro* for journey by rail, bus or other means of transport in vogue as the case may be. They will be given free boarding and lodging and also an *ad hoc* allowance of Rs. 125 for out of pocket expenses for an institute-

*From the participant's home or his institution to the Summer Institute.

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duration of 6 weeks or Rs. 3 per day for institute having lesser duration. Participants are required to stay at the campus and make use of the boarding and lodging arrangements to be provided by the institute authorities.

10. Location and Duration

The location and duration of the 56 summer institutes to be held during 1968 are given in the following pages:

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

BIOLOGY

EASTERN ZONE

1. Ranchi University,
Ranchi. 3 June-
13 July
2. Utkal University (Regional College
of Education, Bhubaneswar). 13 May-
22 June

NORTHERN ZONE

3. Agra University
(Agra College, Agra). 27 May-
6 July
4. Delhi University,
Delhi. 3 June-
13 July
5. Gorakhpur University,
Gorakhpur. 6 May-
15 June

WESTERN ZONE

6. Gujarat University,
Ahmedabad. 6 May-
15 June
7. Marathwada University,
Aurangabad. 29 April-
8 June
8. Poona University,
Poona. 6 May-
15 June

of Summer Institutes

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*Regions covered
by the Institute*

Director

4

5

Bihar, Assam, Manipur, Nagaland, Tripura and NEFA Prof. K.C. Bose, Head of the Department of Zoology, Ranchi University.

West Bengal and Orissa Dr. (Mrs.) G.R. Ghosh, Reader, Department of Botany, Regional College of Education, Bhubaneswar.

Haryana, Punjab and Western U.P. Prof. C.P. Singh, Head of the Department of Zoology, Agra College, Agra.

Delhi and J. & K. Prof. B.R. Seshachar, Head of the Department of Zoology, Delhi University.

Eastern U.P. Prof. H.S. Chaudhary, Head of the Department of Zoology, Gorakhpur University.

Gujarat and Rajasthan Dr. M.S. Dubale, Head of the Department of Zoology, University School of Science, Ahmedabad.

Madhya Pradesh Prof. K.B. Deshpande, Head of the Department of Botany, Marathwada University.

Maharashtra and Goa Dr. T.S. Mahabale, Head of the Department of Botany, Poona University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

SOUTHERN ZONE

- | | | |
|-----|--|---------------------|
| 9. | Annamalai University,
Annamalainagar. | 29 April-
8 June |
| 10. | Bangalore University
(Central College, Bangalore). | 29 April-
8 June |
| 11. | Madras University (Madras
Christian College, Madras). | 29 April-
8 June |
| 12. | Osmania University,
Hyderabad. | 29 April-
8 June |

CHEMISTRY

EASTERN ZONE

- | | | |
|-----|--|---------------------|
| 13. | Jadavpur University,
Calcutta-32. | 29 April-
8 June |
| 14. | Patna University,
Patna. | 13 May-
22 June |
| 15. | Utkal University (Regional College
of Education, Bhubaneshwar). | 13 May-
22 June |

NORTHERN ZONE

- | | | |
|-----|--|--------------------|
| 16. | Banaras Hindu University,
Varanasi. | 13 May-
22 June |
| 17. | Lucknow University,
Lucknow. | 6 May-
15 June |

of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Kerala	Dr. K.R. Ayyangar, Head of the Department of Botany, Annamalai University.
Mysore	Dr. M. Nagaraj, Department of Botany, Central College, Bangalore.
Madras	Dr. P.J. Sanjeeva Raj, Department of Zoology, Madras Christian College, Madras.
Andhra	Prof. M.R. Suxena, Head of the Department of Botany, Osmania University.
West Bengal and Orissa	Dr. A. Chakraborty, Department of Chemistry, Jadavpur University.
Bihar, Assam, Nagaland, NEFA Manipur and Tripura	Prof. J.N. Chatterjea, Head of the Department of Chemistry, Patna University.
Science Methods of Teachers of Training College in Eastern Zone	Dr. A.N. Bose, Head of the Department of Chemistry, Regional College of Education, Bhubaneswar.
Eastern U.P.	Dr. B.M. Shukla, Reader, Department of Chemistry, Banaras Hindu University.
Delhi and Western U.P.	Prof. A.B. Sen, Head of the Department of Chemistry, Lucknow University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3
18.	Panjab University, Chandigarh.	6 May- 15 June
WESTERN ZONE		
19.	Gujarat University, Ahmedabad.	6 May- 15 June
20.	Rajasthan University, Jaipur.	29 April- 8 June
21.	<i>Indore</i> Vikram University, Ujjain. <i>Indore</i>	13 May- 22 June
22.	Regional College of Education, Ajmer.	13 May- 22 June
SOUTHERN ZONE		
23.	Andhra University, Waltair.	20 May- 29 June
24.	Annamalai University, Annamalainagar.	29 April- 8 June
25.	Bangalore University (Central College, Bangalore).	29 April- 8 June
26.	Osmania University, Hyderabad.	13 May- 22 June
27.	Mysore University, Regional College of Education, Mysore.	29 April- 8 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Punjab, Haryana, Himachal Pradesh and J. & K.	Prof. B.R. Puri, Department of Chemistry, Panjab University.
Gujarat, Maharashtra and Goa	Prof. A.M. Trivedi, Department of Chemistry, University School of Sciences, Ahmedabad.
Rajasthan	Prof. R.C. Mehrotra, Head of the Department of Chemistry, Rajasthan University. <i>S. G. Harimalkar, Deptt.</i>
Madhya Pradesh	Prof. W.V. Bhagwat , School of Studies in Chemistry, Ujjain <i>Chem. Haliker Science College, Indore</i>
For Teachers from Training Colleges in the Zone	Dr. P.D. Bhatnagar, Reader, Department of Chemistry, Regional College of Education, Ajmer.
Andhra	Prof. M.N. Sastri, Department of Chemistry, Andhra University.
Madras and South Kerala	Dr. K. Ganpathy, Reader, Department of Chemistry, Annamalai University.
Mysore and North Kerala	Prof. M. Shadaksharswamy, Principal, Central College, Bangalore.
Sequential	Prof. V.R. Srinivasan, Department of Chemistry, University College of Science, Hyderabad.
Teachers from Training Colleges in the Zone	Shri S.R. Rao, Reader, Department of Chemistry, Regional College of Education, Mysore.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

MATHEMATICS

EASTERN ZONE

28. Calcutta University,
Calcutta. 13 May-
22 June

29. Jadavpur University,
Calcutta-32. 29 April-
8 June

NORTHERN ZONE

30. Allahabad University,
Allahabad. 13 May-
22 June

31. Delhi University
(Ramjas College, Delhi). 20 May-
29 June

32. Kanpur University,
Kanpur. 13 May-
22 June

33. Kuruksetra University,
Kurukshetra. 13 May-
22 June

WESTERN ZONE

34. Marathwada University,
Aurangabad. 29 April-
8 June

35. Nagpur University,
Nagpur. 29 April-
8 June

36. Poona University,
Poona. 22 April-
1 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
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4	5
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West Bengal,
Assam, Nagaland,
NEFA, Manipur
and Tripura

Prof. S.K. Chakravarti, Head of
the Department of Mathematics,
Calcutta University.

Bihar and
Orissa

Dr. D.K. Sinha, Reader, Depart-
ment of Mathematics, Jadavpur
University.

Eastern U.P.

Prof. R.S. Mishra, Department of
Mathematics, Allahabad Univer-
sity.

★
Delhi

Principal P.D. Gupta, Ramjas
College, Delhi.

Western U.P.

Prof. S.P. Nigam, Head of the
Department of Mathematics,
D.A.V. College, Kanpur.

Haryana, Panjab,
Himachal Pradesh
and J. & K.

Dr. C. Mohan, Reader, Depart-
ment of Mathematics, Kuru-
ksetra University.

Maharashtra

Principal, A.N. Chikhalikar,
Devagiri College, Aurangabad.

Madhya Pradesh

Dr. B.S. Fadnis, Head of the
Department of Mathematics,
Nagpur University.

Teachers from
Poona Schools
and Goa

Prof. V.S. Huzurbazar, Head of
the Department of Mathematics
and Statistics, Poona University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

37. Sardar Patel University,
Vallabh Vidyanagar. 6 May-
15 June

38. Rajasthan University,
Jaipur. 20 May-
29 June

SOUTHERN ZONE

39. Bangalore University
(Central College, Bangalore). 29 April-
8 June

40. Madras Institute of Technology,
Madras. 22 April-
1 June

41. Osmania University,
Hyderabad. 6 May-
15 June

PHYSICS

EASTERN ZONE

42. Gauhati University,
Gauhati. 13 May-
22 June

43. Jadavpur University,
Calcutta-32. 29 April-
8 June

NORTHERN ZONE

44. Agra University,
Agra. 13 May-
22 June

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of Summer Institutes—(Contd.)

<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Gujarat	Dr. B.S. Yadav, Department of Mathematics, Sardar Patel University.
Rajasthan	Prof. G.C. Patni, Head of the Department of Mathematics, Rajasthan University.
Mysore and Kerala	Prof. F.J. Noronha, Head of the Department of Mathematics, Central College, Bangalore.
Madras	Prof. Surya Prakash, Department of Mathematics, Madras Institute of Technology, Madras.
Andhra Pradesh	Dr. Afzal Ahmad, Reader, Department of Mathematics, Osmania University.
Assam, Tripura, NEFA, Nagaland and Manipur	Prof. H. Goswami, Department of Physics, Cotton College, Gauhati.
Bihar, Orissa and West Bengal	Dr. B. Bhattacharya, Reader, Department of Physics, Jadavpur University.
Western U.P.	Prof. D.R. Khandelwal, Head of the Department of Physics, Agra College, Agra.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3

45. Panjab University,
Chandigarh. 29 May-
6 July

46. Banaras Hindu University,
Varanasi. 13 May-
22 June

WESTERN ZONE

47. Gujarat University,
Ahmedabad. 6 May-
15 June

48. Sardar Patel University,
Vallabh Vidyanagar. 1 May-
8 June

49. Shivaji University,
Kolhapur. 13 May-
22 June

50. Saugar University,
Sagar. 6 May-
15 June

51. Udaipur University,
Udaipur. 13 May-
22 June

SOUTHERN ZONE

52. Andhra University,
Waltair. 13 May-
22 June

53. Annamalai University,
Annamalainagar. 22 April-
31 May

of Summer Institutes—(Contd.)

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<i>Regions covered by the Institute</i>	<i>Director</i>
4	5
Punjab, J. & K. Himachal Pradesh, Haryana and Delhi	Dr. B.C. Pandey, Department of Physics, Panjab University.
Eastern U.P.	Dr. G.K. Das; Department of Physics, Banaras Hindu Univer- sity.
Rajasthan	Prof. P.D. Pathak, Head of the Department of Physics, Univer- sity School of Science, Ahmedabad.
Gujarat	Prof. A.R. Patel, Head of the Department of Physics, Sardar Patel University.
Maharashtra and Goa	Prof. V.S. Patankar, Head of the Department of Physics, Shivaji University.
Madhya Pradesh	Dr. J.D. Ranade, Reader, Depart- ment of Physics, Saugar Uni- versity.
Sequential	Prof. J. Verma, Head of the Department of Physics, M.B. College, Udaipur.
Andhra	Prof. T. Thirvenganna Rao, Department of Physics, Andhra University.
Madras	Prof. S. Sriraman, Head of the Department of Physics, Annama- lai University.

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Location and Duration

<i>Sl. No.</i>	<i>University</i>	<i>Institute Dates</i>
1	2	3
54.	Bangalore University (Central College, Bangalore).	6 May- 15 June
55.	Kerala University, Alwaye-4.	22 April- 1 June
56.	Mysore University (Regional College of Education, Mysore).	1 May- 11 June

of Summer Institutes—(Contd)

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*Regions covered
by the Institute*

Director

4

5

Mysore

Dr. K.N. Kuchela, Head of the Department of Physics, Central College, Bangalore.

Kerala

Prof. K. Venkateswarlu, Head of the Department of Physics, Kerala University Centre, Alwaye-4.

Teachers from
Training Colleges
in the Zone

Dr. G.S. Srikantia, Head of the Department of Physics, Regional College of Education, Mysore.

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1968

S M T W T F S

APRIL

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**IN SCIENCE AND MATHEMATICS FOR TEACHERS FROM HIGH/HIGHER
MULTIPURPOSE SCHOOLS/PUC/INTERMEDIATE/TRAINING COLLEGES**

Application Form

Institute in.....at.....

to which reply should be sent
(Address)

5. Permanent Address

7. Sex : Male/Female.....

Experience.....

Experience

Seminar, Summer Institute, etc., during the previous years.*

Year of	Class, rank, Distinction.	University or Institu-	Other Information
---------	------------------------------	---------------------------	----------------------

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SUMMER INSTITUTES IN SCIENCE AND MATHEMATICS FOR TEACHERS FROM HIGH/HIGHER SECONDARY/MULTIPURPOSE SCHOOLS/PUC/INTERMEDIATE/TRAINING COLLEGES

Application Form

Institute in.....at.....

1. Full Name (in block letters).....
2. Designation
3. Father's Name.....
4. Address to which reply should be sent (in block letters).....
5. Permanent Address.....
6. Date of Birth.....
7. Sex : Male/Female.....
8. Marital Status : Married/Unmarried.....

9. Teaching/Research/Professional Experience

10. Mention if you have participated in any research seminar, Summer Institute, etc., during the previous years.*

11. Academic Record :

Examination Passed	Subjects		Year of passing	Class, rank, distinction, etc.	University or Institution	Other Information
	Main	Subsidiary				
B.A./B.Sc. Pass/ Two-year Honours/ Three-year Honours						
M.A./M.Sc.						
Other certificates, diplomas, degree, etc.						

Dated.....
Place

Signature of the Applicant.....

12. Recommendation of the forwarding authority.

Signature

Dated.....

Designation and address.....

*Teachers who attended Summer Institutes in previous years should not apply.

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SUMMARY STATEMENT OF THE LISTS OF EQUIPMENTS TO BE IMPORTED FROM U.S.A. FOR SUMMER INSTITUTE PROGRAMME -1968.

SECTION I	List of equipment to be distributed to the Participants of College level Summer Institutes in Chemistry and Physics.	\$ 92,250.00	Pages 1 - 2
SECTION II	List of kits in Biology, Chemistry and Physics - 5 sets each.	\$ 51,696.00	3 - 7
SECTION III	Lists of equipment for the Organisation of Summer Institutes for :		
	<u>College Level Biology Institutes :</u>		
	Ahmedabad ...	5,000.00	8
	Bombay ...	6,134.55	9 - 11
	Chandigarh ...	4,266.50	12 - 22
	Gorakhpur ...	3,954.50	23 - 26
	Hyderabad ...	5,388.00	27 - 29
	Hyderabad ...	4,597.00	30 - 32
	Jaipur ...	4,533.00	33 - 35
	Kolhapur ...	4,704.00	36
	Mysore ...	6,039.00	37
	Poona ...	5,002.25	38 - 43
	Sagar ...	4,933.95	44 - 48
	Trivandrum ...	5,291.00	49 - 51
	Trivandrum ...	3,105.60	52 - 56
	Varanasi ...	5,000.00	57
		\$ 67,949.35	
	<u>College Level Chemistry Institutes:</u>		
	Annamalainagar ...	5,500.00	58
	Chandigarh ...	5,130.00	59
	Cuttack ...	5,500.00	60
	Delhi ...	4,845.00	61
	Hyderabad ...	4,984.09	62 - 63
	Jaipur ...	5,018.80	64 - 65
	Jadavpur, Calcutta ...	4,931.00	66 - 67
	Poona ...	4,760.15	68 - 72
	Nagpur ...	3,431.50	73
	Varanasi ...	5,118.00	74
	Vallabh Vidyanagar ...	6,000.00	75
	Waltair ...	4,998.10	76 - 77
		\$ 60,216.84	

(p.t.o)

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-: 2 :-

College Level Physics Institutes:

Alway	...	5,555.00	Page	78
Baroda	...	4,365.00		79
Jadavpur, Calcutta..	...	4,448.00		80 - 81
Delhi	...	4,664.00		82
Gauhati	...	5,030.00		83
Mysore	...	4,392.50		84 - 85
Nagpur	...	4,495.00		86
Pilani	...	2,812.35		87
Sagar	...	4,850.00		88 - 89
Tirupati	...	4,908.00		90 - 92
Waltair	...	<u>5,100.00</u>	₹	50,619.85
				93

Grand Total (Sections I, II & III) :- ₹ 322,732.04

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2

(1)	(2)	(3)	(4)	(5)	(6)
2.	Demonstration Slide Rule, four foot long	0252(Central Scientific 73283-1)	The Welch Scientific Co. 7300N Linder Avenue, Skokie, Illinois 60078.	630	9450.

PHYSICS

3.	Laboratory 5" Oscilloscope Kit, 5 MHz bandwidth, circuit board construction with vertical sensitivity 0.025 volts RMS per inch at 1 KHz; Rise time 0.08 microseconds or less; Input impedance at 1 KHz 2.7 megohms or greater.	10-12	Heath Corporation Harbour Michigan.	Benton 495	40590.00
TOTAL:					<u>\$ 92,250.00</u>

CONSIGN TO: THE SECRETARY
 UNIVERSITY GRANTS COMMISSION
 BAHADUR SHAH ZAFAR MARG
 NEW DELHI-1.

SECTION I

(1)

LIST OF EQUIPMENT TO BE DISTRIBUTED TO THE PARTICIPANTS
 OF COLLEGE LEVEL SUMMER INSTITUTES IN CHEMISTRY AND PHYSICS
 TO BE HELD DURING 1968.

S.No.	Title and Type of Equipment	Catalogue No.	Manufacturer and Make	Quantity	Cost in \$
<u>CHEMISTRY</u>					
1.	Vacuum Tube Voltmeter (VTVM) Kit Export Model, 230 Volt. 50 Cy. for measuring DC & AC - 1500 volts resistance 0.1 ohm. 1000 megohms.	IM-11E	Heath Corporation, Benton Harbour, Michigan.	630	15,750.00
2.	Kit of glass blowers tools containing Goggles, Glass blowers, yellow filtering	11-407	Fisher Scientific Company	630.	5,670.00
		27850) (Matheson 27850-10) (Sargent S-40355) (Thomas 6105-B) (Wilkins- Anderson 39970)			
3.	Polaroid HN-Film Laboratory grade, size 6 x 6 inches, 2 pieces for construction if simple polaroscope to view strains in unannealed glass.	13-789 (Alice V 69850 -do- A) (Fisher 13-789) (Sargent S-709489A) two required Welch 3709		630	5,040.00
4.	Glass blower's torch, light, weight for use as hand torch or on stand; supplied with stand, interchangeable tips and wrench for changing tips.	4-6690 (Aloe VP66183 Matheson 6690-20 (Sargent S-40355) (Thomas 2649-D) (Wilkins-Anderson 9160)	Harshaw scientific Jackson & Swanson Street Philadelphia Pa. 19148	630	15,750.00

Contd.....2

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CONSIGN TO: THE SECRETARY
UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-1 - INDIA

SECTION II (3)

LIST OF FILMS (TO BE IMPORTED) FOR THE SUMMER INSTITUTES
PROGRAMME: 1968

No. (1)	Films (2)	Source (3)	Quantity (4)	Cost (\$) (5)
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BIOLOGY

1.16 mm Educational Sound Films. Encyclopaedia Britannica Films Co. 5 sets - 36,250
 Biology Program 50 in number 1150 Wilmette Avenue, Wilmette
 and Biology Programme Film strips ILLINOIS, UNITED STATES OF AMERICA,
 - with one Kalart Victor 70-15
 Projector as bonus.

- 1916 What is Ecology
- 1944 The Community
- 1782 Succession from sand dune to forest
- 2085 Distribution of Plants and Animals
- 1934 The Temperate Deciduous forest
- 1930 The grasslands
- 1928 The Desert
- 1860 The High Arctic Biome
- 1914 The Tropical Rain Forest
- 1851 The Cave Community
- 2005 The Sea
- 2009 Plankton & The open sea
- 2136 The Physical Environment
- 2144 Population Ecology
- 1968 Bacteria
- 1827 Fungi
- 1964 Simple Plants and The Algae
- 2017 Origin of Land Plants
- 2013 Evolution of Vascular Plants
- 1829 Gymnosperms.

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- 1932 Angiosperms-The Flowering Plants
- 1962 The Growth of plants
- 1837 Seed germination
- 2035 Photosynthesis
- 1954 The Single celled Animals Protozoa
- 1945 First many celled animals - The sponges
- 1956 Stinging-celled animals-coelenterates
- 2007 Flatworms (Platyhelminthes)
- 1896 Adaptive Radiation-The mollusks
- 1902 Segmentation-Annelid worms
- 1910 Jointed legged animals-arthropods
- 1821 Social Insects The Honeybee
- 1908 Echinoderms Sea Stars & Relatives
- 2033 What is a fish
- 2045 Fish Embryo
- 2065 Parasitism (Parasitic Flatworm)
- 1952 What is an amphibian
- 2128 Amphibian embryo
- 1858 What is a reptile
- 1948 What is a bird
- 1815 The Chick embryo
- 1966 What is a mammal
- 1819 The blood
- 1554 Fundamentals of nervous system
- 1825 DNA: Molecule of heredity
- 1900 Mitosis
- 2020 Meiosis: Sex cell formation
- 2073 Laws of heredity
- 2138 Gene action
- 2140 Natural selection
- EBF BIOLOGY PROGRAM - 35 mm Filmstrips
- 10640 Classification of plants
- 10580 Classification of invertebrate animals
- 10530 Classification of Living fish
- 10670 Classification of living mammals
- 9340 Orders of insects

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- 9210 The insects
- 9520 Classification of living amphib & reptiles
- 9860 Classification of living birds.

Total Cost \$ 36,250.00

CHEMISTRY

<ul style="list-style-type: none"> Chemistry Study Films numbering 26 (24 Eastman colour and 2 black & white) with projector as bonus (possibility of obtaining projectors as bonus to be explored through SM) 4103 Gases & How they combine 4109 Electric Interactions in Chemistry 4112 Chemical Families 4115 Molecular Motions 4118 Vibration of molecules 4121 Introduction to Reaction Kinetics 4127 Catalysis 4124 Equilibrium 4130 Acid Base Indicators 4138 Electrochemical Cells 4136 Nitric Acid 4142 Molecular spectroscopy 4149 Hydrogen Atom as Viewed by Quantum Mechanics - Advanced Version. 4151 Ionization Energy 4154 Shapes & Polarities of Molecules 4157 Chemical Bonding 4160 A Research Problem : Inert(?) Gas Compounds 4163 Synthesis of an Organic Compound 4166 Mechanism of an Organic Reaction 4169 Bromine - Element from the Sea 4172 Vanadium - A Transition Element 4175 High Temperature Research 4178 Transuranium Elements 4181 Biochemistry & Molecular Structure 	<ul style="list-style-type: none"> Consolidated film Industries 959 Seward Street Hollywood 38, California Hollywood 9, 441. 	<ul style="list-style-type: none"> 5 sets 	<ul style="list-style-type: none"> 6,500.00
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& White prints:

- 4106 Gas Pressure & Molecular collisions
- 4139 Crystals & their Structures

Total Cost \$ 6,500.00

USS

PSSC PHYSICS FILMS:With bonus projectors(Possibility to be explored for obtaining Projector on bonus through ISM)

Educational Services Incorporated
123,Water Street Watertown,MASS
02172.

-5 sets 8,946.00

- 0101 Time & Clock
- 0103 Measuring large Distances
- 0105 Measurement
- 0106 Change of scale
- 0108 Vectors
- 0109 Vectors
- 0110 Definite and Multiple Proportions
- 0111 Elements,Compounds & Mixtures
- 0114 Crystals
- 0115 Behaviour of gases
- 0116 Random Events
- 0119 Short Time Intervals
- 0201 Introduction of optics
- 0203 Speed of light
- 0204 Simple waves
- 0207 Sound waves in air
- 0801 Forces
- 0304 Free Fall and projectile motion
- 0306 Periodic motion
- 0307 Frames of reference
- 0309 Universal Gravitation
- 0310 Elliptic orbits
- 0311 Energy and work

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- 0312 Mech. Energy and thermal energy
- 0313 Conservation of Energy
- 0318 Elastic collisions and stored energy
- 0319 Collisions of Hard spheres
- 0403 Coulomb's Law
- 0404 Millikan Experiment
- 0405 Coulombs Force Constant
- 0407 Electric Line of force
- 0408 Counting electrical charges in Motion
- 0409 Elem. charges & Transfer of kinetic energy
- 0411 A magnet Laboratory
- 0412 Electrons in a Uniform Magnetic field
- 0413 Mass of the Electron
- 0415 Electromagnetic waves
- 0416 The Rutherford Atom
- 0417 Photoelectric effect
- 0418 Photons
- 0421 The Franck - Hertz Experiment
- 0423 Matter Waves
- 0430 EMF
- 0431 Elect. Potential Energy & Pol. Diff. Part 1
- 0440 A Million to one

Total Cost \$ 8,946.00

Grand Total for 5 sets each of
Biology, Chemistry and Physics Films \$ 51,696.00

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 CONSIGN TO:- PROFESSOR J.J. CHINYOY
 Head of the Department of Botany
 University School of Sciences
 Gujarat University-AHMEDABAD.

SECTION III

(8)

TITLE & TYPE OF THE EQUIPMENT. (2)	CATALOGUE NO. (3)	SOURCE/MANUFACTURER (4)	COST IN \$ Approx. (5)
Precision Balance, Single Pan - one	Model -	P1-800 M/s Torsion Balance Co. New Jersey - USA	} \$ 5,000.00 approximate cost.
Temperature humidity chamber with vapor		Temperature Chambers Blue M Electric Co. 60406 Illinois Blue Island	
Tissue Homogeniser			
Ultracentrifuge			
Densitometer for Electrophoresis			
Disc electrophoresis, a-12 sample bath		M/s Canal Industrial Corp. 5635 Fisher Lane Deptt.S-71 Rockville Maryland 20857/(301)427-1515(USA).	
Total : - \$ 5,000.00			

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CONSIGN TO : Professor N.B. Inamdar
Director, Summer Institute in Biology for College Teachers,
Department of Zoology,
Institute of Science,
BOMBAY (MAHARASHTRA, INDIA)

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Item No.	Title and type of Equipment	Catalogue No.	Source/Manufacturer's Address	Approximate Cost (₹)
1	2	3	4	5
1.	<u>Accessories for "Electronic 20" Calorimeter-Spectrophotometer:</u>			
	VCM-5 Recorder for 230 V. 50 cycles A.C. (1 No.)	37-01-06-31	Bausch & Lomb.	464.00
	Flow-Thru Unit complete with Flow-Thru Cuvette, microcells, pump housing, probe and tubing for 230V, 50 cycles A.C. (1 No.)		-do-	189.00
	Infra red sensitive tube and filter for extending range from 625 to 950 mmu (1 set)	33-29-18 and 33-29-72	-do-	5.60
	Adapter for 1/2" Cuvette (1 No.)	33-29-49	-do-	5.60
	1/2" Cuvettes (Box of 2) (1 Box)	33-29-33	-do-	10.50
	Tropicalised Printed Circuit with tubes (1 No.)	33-29-68	-do-	57.40
	Visible Phototube (2 Nos.)	33-29-71	-do-	8.40
	Infrared Phototube (2 Nos.)	33-29-72	-do-	8.40
	6-Volt lamps; box of 10 (1 box)	33-33-85	-do-	12.00
	Adapter for 1/2" Test tube (1 No.)	33-29-24	-do-	5.60
	1/2" Test tubes; Box of 12 (1 box)	33-29-27	-do-	5.00
	1/2" Cuvettes Box of 2 (1 Box)	33-29-33	-do-	10.50

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	2	3	4	5
1. Fuses 3/8; a Box of 5 (1 Box)	33-29-74	Dausch & Lomb		\$ 1.50
2. Stereozoom Microscope Model BVB-73 for opaque and transparent objects, paired 10X widefield eyepieces 0.7X thru 3X variable power pod giving continuously variable magnification ranges, with extra 33X paired widefield eyepieces and supplementary lens attachment 2X (2 Nos.)	31-26-30-73 31-05-65-02 31-26-19	-do-		435.75
Nicholas Illuminator with 6.5 volt bulb and variable transformer 230 V 50 cycles AC (1 No.)	31-33-53	-do-		33.75
Micrometer disc rules to 0.1 mm (12 Nos.)	31-16-02	-do-		90.00
Stage micrometer rules to 0.1 mm and 0.01 mm (2 Nos.)	31-16-90	-do-		40.50
Spare lamp 6.5 volt for Nicholas Illuminator (12 Nos.)	31-31-79	-do-		13.80
3. Film Micro, eter eyepiece 12.5 X with case (1 No.)	31-16-50-01	-do-		117.00
Demonstration eyepiece 6.4X (1 No.)	31-15-95	-do-		121.50
Comparison eyepiece 1X (1 No.)	31-15-99	-do-		201.75
Lens Paper, 50 in book (100 Sheets)	31-50-62	-do-		15.00
4. Centrifuge Model CS complete with multispeed attachment 230V 50 Cycles AC.	3451	International Equipment Co., Needham Heights, Mass. 02194, USA.		1,600.00

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1	2	3	4	5
				\$
5.	<u>Accessories & Attachments for Photovolt Densitometric equipment:</u>			
	Guide for paper strips (1 No.)	5130	Photovolt Corporation Broadway, New York 10.	19.00
	Motor Drive Assembly (1 No.)	5134	-do-	24.00
	Scanning stage (1 No.)	5136	-do-	135.00
	UV light source (1 No.)	5139	-do-	50.00
	Replacement lamp (1 No.)	5165	-do-	2.50
	Replacement Camera (1 No.)	5167	-do-	10.00
	Iris diaphragm (1 No.)	5116	-do-	31.00
	UV filter for 253 mu (1 No.)	5265	-do-	11.00
6.	Overhead projector for Ward's Natural Scient Est. Transparencies "KNAWE"	--	--	200.00
7.	Dynazoom Laboratory Research Microscope Model LCR-3 with Photomultiplier Body with circular graduated stage.	31-22-33-35	Bausch & Lomb.	1,700.00
8.	Phase contrast equipment for the above.	31-58-88-01	-do-	500.00
			Grand Total :-	<u>\$ 6,134.55</u>

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CONSIGN TO: Prof. GP Sharma,
 Director,
 Summer Institute in Biology for College Teachers,
 Department of Zoology,
 Panjab University, Chandigarh.

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Title & Type of Equipment	Catalogue No.	Source/Manufacturer's Full Address.	Approximate Cost \$
2	3	4	5
2-Stereoscopic Binocular Microscope 1 X thru 2 X stereozoom variable power pod with illuminator or transformer 220 volts (magn 10x thru 20x).	Turttox 66 325A5110	Baush and Lomb	766.00
2-Stereoscopic Binocular Microscope 0.7X thru 3X stereo-zoom with illuminator 220 volts of transformer variable power pod (Total magn. 7X thru 30X)	Turttox 66 325A5111	-do-	936.00
2-Stereoscopic Binocular Microscope 0.7X thru 3 X stereozoom; variable power pod; illuminator 220 volts (Total magn 7X thru 30 X)	Turttox 66 325A5115	-do-	934.00
1-Stereoscopic Binocular Microscope Graf Apsce Paired 2 X objectives 10X wide Field Oculars Total magn 20X to 30X Trans illumination base with Mirror and contrast plate and screws wooden case, leatherrettle with case.	Turttox 66 325A455		185.00
1-Microscope screen (With case)	Turttox 66 330A3601	-do-	42.00
1-Micro projector Trisimplex with achromatic objectives and accessories	Turttox 66 330A20, 330A-201	-do-	150.00 67.50
1-Microprojector (Pre-microtar)	Turttox 66--330A21	-do-	150.00

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	2	3	4	5
2-Eye pieces No.1X B & L No.2X		Turttox 66.	Bausch and Lomb	20.00
1. Three purpose Oven , 220 volts A.C.		Turttox 66-320A7E	-do-	85.00
6. Drawing attachment for stereo-zoom binocular microscope			-do-	
Microlite, 220 volts A.C. - 6		Turttox 66-325A7	-do-	78.00
Dazor Floating magnifier and Lamp combination 220 volts A.C. Extra bulbs (Six) - 1		Turttox 66-375A95	-do-	50.00
7. Mounted Microslides* - 2 (As per list attached)			-do-	450.00
8. Drawing stencil set No.908A - 2			-do-	80.00
9. Pelican drawing pen with set of nibs - 4			-do-	20.00
16. Hand lens (magnifiers) 20 X - 4			-do-	20.00
17. Hair Hygrometer - 2			-do-	20.00
18. Hensen-stempel pipette			-do-	4.00
19. Tally register (hand operated) - 2			-do-	28.00
20. Reversing thermometer (complete set with two extra thermometer) - 1			-do-	71.00
21. Kemmerer water-sampler - 1			-do-	71.00
22. Turbidimeter - 1			-do-	35.00
23. Ekman current meter - 1			-do-	35.00

GRAND TOTAL: 4,266.50

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No.	Catalogue No. (Turtox Cat. No.65)	Item	Qty.
	2	3	4
1.	E 2.11	Sponge, sections through the parent body showing mature and developing eggs.	1
2.	E 2.13	Sponge, typical cross sections, showing larvae in the tissue of the parent body.	1
3.	E 3.131	Hydra, cleavage, in typical sec. of female hydra.	1
4.	E 3.132	Hydra blastula (coeloblastula) Typ. x.s.	1
5.	E 3.236	Hydra gastrula, typical x.s.	1
6.	E 3.141	Tubularia, typ. sec. through several regions of female gonophore showing early development of embryos.	1
7.	E 3.142	Tubularia, cleavage (radial). Eggs dissected out of gonophore and mounted whole.	1
8.	E 3.144	Tubularia, blastula, w.m.	1
9.	E 3.145	Tubularia, gastrula (endoderm arises by morula delamination), w.m.	1
10.	E 3.146	Tubularia, three stages in the development of the actinula; w.m.	1
11.	E 3.148	Tubularia development. All stages through actinula on one slide.	1
12.	E 3.156	Campanularia, young polyp, w.m.	1
13.	E 3.165	Hydractinia planula, w.m.	1
14.	E 3.21	Aurelia, unsegmented eggs (homoelectithal) w.m.	1
15.	E 3.22	Aurelia, cleavage (radial), w.m.	1
16.	E 3.23	Aurelia, blastula (morula), w.m.	1

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	1	2	3	4
17.	E 3.24	Aurelia, gastrula (embolic or invaginate) w.m.		1
18.	E 3.25	Aurelia, planula (free-swimming) w.m.		1
19.	E 3.251	Aurelia development, all stages through planula on one slide		1
20.	E 3.255	Aurelia, very early stage in development of scyphistoma, shortly after attachment.		1
21.	E 3.26	Aurelia, scyphistoma (attached larvascyphula or hydra-tube) w.m.		1
22.	E 3.27	Aurelia, strobila (an intermediate larval stage, individuals arise by budding or strobilization.		1
23.	E 3.28	Aurelia, ephyra (later larval stage) w.m.		1
24.	E 4.11	Asterias (starfish) Sperm smear.		1
25.	E 4.12	Asterias, ovary, Sections show mature and developing eggs.		1
26.	E 4.13	Asterias, mature eggs, w.m.		1
27.	E 4.21	Asterias, polar body formation (maturation complete before entrance of spermatozoa) w.m.		1
28.	E 4.31	Asterias, early and late cleavage (radial) Rich in a variety of stages, w.m.		1
29.	E 4.32	Asterias, early and late cleavage. Thin sections showing nuclei and occasional mitosis.		1
30.	E 4.41	Asterias, blastula (coeloblastic). Stained to show the individual cells, w.m.		1
31.	E 4.42	Asterias, gastrula (embolic) Stained to show the individual cells, w.m.		1
32.	E 4.43	Asterias, blastula and gastrula. Thin sections. Excellent for demonstrating the size and shape of the cells.		1

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20	E 4.45	Asterias, late gastrula, mesoderm formation, w.m.	1
	E 4.51	Asterias, all stages through the bidinnaria on one slide, w.m.	1
	E 4.52	Asterias, all stages through the bipinnaria on one slide. Thin sections.	1
30	E 4.61	Asterias, bipinnaria (free-swimming larval form), w.m.	1
	E 4.62	Asterias, brachiolaria (later larval form), w.m.	1
38	E 4.63	Asterias, young starfish immediately after metamorphosis, w.m.	1
39	Set ES	Starfish Embryology, eleven slides from above listings.	1
40	E 4.81	Arbacia, (sea urchin). Sections of ovaries showing mature and developing eggs.	1
41	E 4.82	Arbacia, cleavage (radial). Possible to see the nuclei and mitosis under high power, w.m.	1
42	E 4.83	Arbacia, blastula (coeloblastic), w.m.	1
43	E 4.84	Arbacia, gastrula (embolic), w.m.	1
44	E 4.85	Arbacia, pluteus (free-swimming larval form), w.m.	1
45	E 4.851	Arbacia, development stages through pluteus on one slide, w.m.	1
47	E 5.12	Gryptophallus magnus (turbellarian), cleavage.	1
47	E 6.12	Cerebratulus, sperm smear	1
48	E 6.13	Cerebratulus, cleavage, w.m.	1
49	E 6.14	Cerebratulus, morula, w.m.	1
50	E 6.15	Cerebratulus, blastula, w.m.	1
			1

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	E 6.16	Cerebratulus, gastrula, w.m.	1
	E 6.17	Cerebratulus pilidia (free-swimming larva), w.m.	1
	E 12.28	Amphioxus, w.m. of late larva-adult transition stage.	1
	E 12.51	Botryllus, tadpole, free swimming larva.	1
	E 14.712	Ambystoma, early cleavage, Typ. sec.	1
	E 14.713	Ambystoma, late cleavage, Typ. sec.	1
	E 14.714	Ambystoma, blastula, Typ. sec.	1
	E 14.715	Ambystoma, gastrula, Typ. sag. sec.	1
	E 14.716	Ambystoma, neural fold. Typ. x.s.	1
	E 14.717	Ambystoma, neural tube, Typ. x.s.	1
	E 14.72	Ambystoma spermary, showing all stages in development of sperm. Good demonstration slide for mitosis. Iron haematoxylin stain. Typ. sec.	1
62.	E 14.725	Ambystoma spermary, like B.14.72 but stained by the Feulgen method, which gives high transparency to the chromosomes.	1
63.	E 14.73	Ambystoma, sperm smear. Very long, curved heads, prominent flagella (tails).	1
64.	E 14.75	Ambystoma. Flat mounted larval tail epidermis, showing entire (uncut) mitotic figures and pigment cells.	1
65.	E 15.01	Turtle, gastrula, w.m.	1
66.	E 15.105	Turtle, gastrula, Ser. sec.	1
67.	E 15.11	Turtle, primitive streak, w.m.	1
68.	E 15.12	Turtle, primitive streak. Ser. x.s.	1
69.	E 15.13	Turtle, embryo in somite stage. Ser. x.s.	1

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1	2	3	4
	E 15.16	Turtle, embryo in somite stage. Ser. x, s.	1
	E 15.17	Turtle, sperm smear	1
	E 16.97	Chick, Feather development. Sections of skin of three different ages of chick embryo showing the development of feathers. One slide.	1
73.	E 17.15	Mouse (or rat), section of uterus, with embryo in situ. Shows uterine wall, placenta and embryo with its membranes.	1
74.	E 17.705	Pig embryo, 4-5 mm. Mounted entire.	1
	E 17.71	Pig embryo, 6 mm. Whole mount.	1
75.	E 17.72	Pig embryo, 6 mm. Ser. x. s.	1
77.	E 17.721	Pig. embryo, 6 mm. Typ. x. s.	1
78.	E 17.722	Pig. embryo, 6 mm. Spaced ser. x. s.	1
79.	E 17.73	Pig. embryo, 6 mm. Ser. sag. sec.	1
80 a.	E 17.74	Pig. embryo, 6 mm Typ. sag. sec.	1
80.	E 17.75	Pig embryo, 6 mm. Spaced ser. sag. sec.	1
81.	E 17.76	Pig. embryo, 10 mm Lightly stained with carmine and mounted entire.	1
82.	E 17.765	Pig embryo, 10 mm. head only, face view, w.m.	1
83.	E 17.77	Pig. embryo, 10 mm. Complete serial x. s.	1
84.	E 17.771	Pig. embryo, 10 mm. Typ. x. s.	1
85.	E 17.772	Pig. embryo, 10 mm. Spaced ser. x. s.	1
86.	E 17.773	Pig. embryo, 10 mm. Complete ser. sag. sec.	1
87.	E 17.774	Pig. embryo, 10 mm. Typ. sag. sec.	1

	1	2	3	4
88.	E 17.775	Pig embryo, 10 mm. Spaced ser. sag. sec.		1
89.	E 17.776	Pig embryo, 10 mm. Complete serial x.s.		1
90.	E 17.781	Pig embryo, 10 mm. Complete serial x.s.		1
91.	E 17.815	Pig embryo, 15 mm. head only, face view w.m.		1
92.	E 17.82	Pig embryo, 15 mm. Complete serial x.sec.		1
93.	E 17.821	Pig embryo, 15 mm. Typ. x.s.		1
94.	E 17.822	Pig embryo, 15 mm. Spaced ser. x.s.		1
95.	E 17.83	Pig embryo, 15 mm. Ser. sag. sec.		1
96.	E 17.84	Pig embryo, 15 mm. Typ. sag. sec.		1
97.	E 17.841	Pig embryo, 15 mm. Spaced ser. sag. sec. each set consists of every tenth section.		1
98.	E 17.845	Pig embryo, 20 mm. Spaced serial x.s. Especially useful in studying organogeny.		1
99.	E 17.85	Pig embryo, 25 mm. Complete serial x.s.		1
100.	E 17.86	Pig embryo, typ. sag. sec. of 6 mm., 10 mm., and 15 mm. All on one slide.		1
101.	E 17.87	Pig embryo, three stages in development of hair. All one slide.		1
102.	H 5.1172	Tooth, developing, Early dental gum, showing first infolding of oral epithelium, in pig foetus.		1
103.	H 5.1173	Tooth, developing. Late dental gum with dental epithelium deeply depressed below the oral surface. Shows early stages of dental cup formation. Pig foetus.		1
104.	H 5.1176	Tooth, developing. Dental cup stage. The tooth primordium is well established, but no dentine has yet been laid down. Pig. foetus.		1
105.	H 5.1181	Tooth, developing. Early stage in dentine formation; pig foetus.		1

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	1	2	3	4
106.	H 5.1183	Tooth, developing. Later stages in dentine formation. Enamel organ and pulp well established; pig. foetus.		1
107.	H 5.1184	Tooth, developing. Shows enamel organ and developing enamel and dentine; pig foetus.		1
108.	H 5.1188	Tooth erupted. I.s. of newly erupted tooth in jaw of pig foetus.		1
109.	H 10.65	Eye, monkey, Median sections, with muscles and lids in place. Section passes through the nerve head.		1
110.	H 10.76	Retina, monkey, sec. of posterior portion of eye-ball, showing detail of retina, choroid and sclera.		1
111.	Z 1.11	Amoeba proteus, entire. Both crawling and floating specimens are included, and several staining techniques are employed, each slide bears many individuals.		1
112.	Z 1.112	Amoeba proteus, sections of many individuals on one slide.		1
113.	Z 1.32	Stentor, showing well extended individuals.		1
114.	Z 3.124	Hydra, x.s., male and female on same slide.		1
115.	Z 3.128	Hydra sections. Cross and longitudinal sections are mounted on the same slide.		1
116.	Z 3.133	Hydra, special median I.s. through hypostome and foot.		1
117.	Z 7.11	Hydatina senta, a large rotifer with prominent corona.		1
118.	Z 7.13	Asplanchna, a mammoth rotifer. Organs distinct, w.m.		1
119.	Z 9.21	Peripatus, x.s. through entire body.		1
120.	Z 9.22	Peripatus, I.s. of anterior end.		1
121.	Z 9.125	Leptodora a fresh-water cladoceran. Reduced carapace and very large antennae, w.m.		1
122.	Z 9.158	Artemia, Brine shrimp, early larvae, w.m.		1

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1	2	3	4
123.	Z 9.24	Peripatus, sagittal section of mid-body region	1
124.	Z 9.48	Limulus, w.m. of larva.	1
125.	Z 10.45	Statoblasts, winter bodies of Plumatella, Pectinatella and Cristatella on one slide.	1
126.	Z 13.012	Brain, section.	1
127.	Set ZVP	Protopterus (Lingfish). Set of 15 slides Histology.	1
128.	Z 14.10	Head, x.s. and I.s. on same slide to demonstrate skull and brain of this primitive amphibian.	1
129.	Z 14.51.	Gill, I.s. through arch and filaments.	1
130.	Z 14.58	Skin, section.	
131.	P.1.11	Entamoeba histolytica, smear from the intestine showing encysted stages of the parasite.	1
132.	P.1.211	Leishmania denovani, causative agent of Kala-azar, smear from infected hamster spleen showing abundance of typical Leishman - Donovan bodies.	1
133.	P.1.232	Trypanosoma equiperdum. Causes dourine in horses, a disease transmitted by coitus. Smear from laboratory infection showing great abundance of typical trypanosomes in blood.	1
134.	P.1.238.	Trypanosoma cruzi, cause of Chagas' disease or South American trypanosomiasis. Blood smear with parasites.	1
135.	P.1.461	Plasodium vivax, parasite of benign tertian malaria, Blood smear.	1
136.	P.1.4622	Plasodium faciparum, thick diagnostic smear, Abundant parasites.	1
137.	P.5.113	Trogloctrema salmincola. Salmon poisoning fluke. w.m. of adult.	1
138.	P.5.167	Platynosomum fastosum (Dicrocoeliidae) a small typical fluke, w.m.	1

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39.	P. 5. 191	Prosthogenimus macrosthis. A fluke from chicken oviduct.	1
40.	P. 5. 198	Stichorchis subtriquetrus. A large amphistome from intestine of beaver.	1
41.	P. 5. 21	Moniezia expansa, sheep tapeworm, Scolex, immature, mature and gravid segments.	1
42.	P. 5. 2515	Taenia solium, w.m. of mature segment.	1
43.	P. 5. 252	Taenia solium, bladderworm. Cysticercus cellulosus, w.m.	1
44.	P. 5. 1423	Schistosoma maematobium, male and female in copula. (see illustration page 543).	1
45.	P. 5. 1497	Strigeid cercaria, a fork-tailed cercaria of snails, common in the U.S.	1
46.	P. 5. 161	Clonorchis sinensis (Opisthorchidae), Chinese liver fluke, entire.	1
47.	P. 5. 174	Paragonimus westermani, human lung fluke, ova, w.m.	1
48.	P. 5. 271	Taenia pisiformis from dog. Scolex, immature, mature, gravid segments.	1
49.	P. 5. 295	Diphyllobothrium latum, w.m. of scolex, immature and mature segments.	1
50.	P. 5. 85	Echinorhynchus, w.m. of a small species, male or female, each	1
51.	P. 6. 11	Strongyloides stercoralis, parasitic in the human intestine. Free-living generation, with males, females and larvae, w.m.	1
52.	P. 6. 35	Oesophagostomum columbianum, sheep nodular worm male or female.	1
53.	P. 6. 365.	Wuchereria bancrofti, human filaria, microfilariae in thick blood smear.	1
54.	P. 6. 37	Cnchocerca volvulus, mature worms in section of tumor.	1
55.	P. 6. 41	Necator americanus, New World hookworm, male w.m.	1
56.	P. 6. 43	Necator americanus, both male and female on each slide, w.m.	1
57.	P. 6. 85	Haemonchus contortus, stomach worm of sheep male, w.m.	1
58.	P. 6. 56	Ancylostoma caninum, dog hookworm, male or female, w.m.	1.

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CONSIGN TO : Dr. J. K. S. Bhargava,
Director, Summer Institute in Biology for College Teachers,
Department of Botany,
Gorakhpur University, GORAKHPUR (UTTAR PRADESH, INDIA)

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Sr. No.	Title and type of Equipment	Catlog No.	Source/Manufacturer's Address	Approx. Cost
1	2	3	4	5
1.	a) Precision Dobnoff metabolic Shaking Incubator complete with constant water level regulator, connecting cord & plug with 200 watt transformer for 230 V.	H 8410	Schaar Scientific Company, Chicago, USA.	600.00
	b) 2 Stainless steel racks to hold eighteen 25 ml. Erlenmeyer flasks & eighteen 20 ml. beakers.	H 8413	-do-	48.00
2.	a) Seitz Filter 6 in. diameter, combination model with pressure lid for pressure, gravity or vacuum; 1000 ml. capacity.	F 2620	-do-	29.00
	b) One filter screen for above		-do-	1.50
	c) 100 sheets 30 mm. (2 pkg.)		-do-	10.00
3.	a) Vapor Temp. Humidity cabinet complete with one stainless steel adjustable shelf & terminal box, to work on 230 V.	G 9110	-do-	695.00
	b) Cabinet type floor stand	G 9111	-do-	65.00
4.	a) A.O. Baker Interference Microscope 7 TC-QdSW - Trinocular with Bertrand Lens & slide out prism. Rotating graduated micro glide "C" stage with 10X, 40X, 100X (Water immersion) Double focus 10X, 40X, 100X (Water immersion) Shearing, and corresponding condensers and eye pieces.		A.C. Baker.	2,000.00
	b) B-Mercury Arc Illuminator	390	-do-	
	c) AO Half Shade eye piece	1091	-do-	

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1	2	3	4	5
			M/s. Calbiochem, 3625 Medford Street, Los Angeles, 90063, California, USA.	506.60
5.	L-Asparagine (25 gms.)	1860		
	AG 1-x2, 100-200 mesh Analytical grade Anion Exchange resin, Ct. (1 lb.)	7010		
	L-Glutamine (5 gms.)	2520		
	Antimycin C, 200 microgram vial. (5 x 1 vial.)	114651		
	Kinetin (6-caffurylaminopurine) (1 gm.)	4226		
	Ribonuclease (Hirs component A), chromatographically homogeneous, lyophilised, (salt free, protease free) (100 gms.)	556746		
	Deoxyribonuclease I (DNase I), bovine pancreas; B. (200 mg.)	2609		
	Ribonucleic acid (yeast), soluble (1 gm.)	55714		
	Deoxyribonucleic acid (DNA), calf thymus, A _c (250 mg.)	2618		
	Adenosine-5-triphosphate, disodium, trihydrate (ATP), A _c (1 gm.)	1191		
	2-Thiouracil, B. (25 gms.)	5971		
	5-Methyl uracil (Thymine), A _c (1 gm.)	6090		
	6, Azauracil, A _c (1 gm.)	19264		

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1	2	3	4	5
E...	8-Azaguanine, B. (1 gm.)	1911	M/s. Calbiochem, 3625, Medford Street, Los Angeles, 90063, California, USA.	
	6-Azacytidine, A. (100 mg.)	189931		
	5-Fluorouracil (250 mg.)	343722	-do-	
	6-Azathymine, A. (a gm.)	1924	-do-	
	(-) Malic acid, A. (1 gm.)	4424	-do-	
	Gibberellic acid, pot salt (1 gm.)	34587	-do-	
	Dowex, Reag. Anion Exchange resin, 1-x1, strongly basic, 100-200 mesh (1 lb.)		M/s. J.T. Baker Chemical Co., U.S.A.	
	Chlorophenol, red indicator powder, pH 5.0-6.6 (5 gm.)			-do-
	Bromothymol Blue, Indicator powder, pH 6.0-7.6 (5 gm.)		-do-	
	Chloroplatinic acid, Reag., ACE (3 gm.)		-do-	
	Potassium metabisulphite, Anal., Reag. Gran. (2 lb.)		-do-	
	Basic Fuchsin (Basic violet 14) certified,		-do-	

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1 2 3 4 5

- 5.... Difco Yeast Extract (1 lb.)
Difco Bakers Yeast Powder (1 lb.)
Tryptone (1 lb.)
Malachite green (Basic green 4) (100 gm.)
Difco Bacto Agar (5 lbs.)
Difco Malt Extract (1 lb.)
Urease Powder (25 gm.)
Beef Extract (2 lbs.)
2,3,5-Triphenyl-2H tetrazolium
chloride (2x10 gm.)
Difco Bacto Peptone (1 lb.)

M/s. Matheson, Scientific Inc.,
1735, N. Ashland Avenue,
Chicago, Illinois, USA.

Total: \$ 3954.50

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CONSIGN TO : Professor M.R. Suxena,
Director, Summer Institute in Biology,
Botany Department,
Osmania University, HYDERABAD (ANDHRA PRADESH, INDIA)

Sl.No.	Title and type of Equipment.	Catalog No.	Source/Manufacturer's Address	Approx. Cost (Rs)
1.	Bomb Calorimeter, double value model, complete with capsules, baskets etc.	2770-B	M/s. Arthur H. Thomas Co., P.Box No.779, Philadelphia, USA.	600.00
2.	Klett Bio-colorimeter, Duboscq typex, complete unit.	3734	-do-	165.00
3.	Photo-micrographic Camera, Bausch and Lomb, Type H, with Shutter.	7985	-do-	325.00
4.	Horizontal Chromatography apparatus, complete with trays, funnel, wicks etc and 200 paper sheets.	3108-HD5	-do-	70.00
5.	Drying rack and paper separator (24) for above.	3106-H.60	-do-	10.00
6.	Light Filters, Kodak Wratten M, complete set.	7116-A	-do-	63.00
7.	Spectrophotometer, Bausch and Lomb, "Spectronic 20" complete with reflectance outfit.	9084-K.	-do-	262.00
8.	Microtome Knife Sharpener, Thomas-Franz, with transformer to be used at 230 volts.	7203	-do-	760.00
9.	Centrifuge, Precision Universal, with place for 28 conical tubes of 15 ml. and extra head of to hold 4 cone shaped tubes of 100 ml.	67310	Precision Scientific Co., 3737 West Cortland Street, Chicago-47, USA.	700.00
10.	Distillation Apparatus, Water, Streamliner model, Electric, 3 gallons per hr., 230 volts with automatic controls.	92287	-do-	735.00

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1	2	3	4	5
11.	Precision Water Colour and Turbidity apparatus, complete with colour ranges from 5-145 and turbidity ranges from 50-5000.	69726	Precision Scientific Co., 3737, West Cortland Street, Chicago-47, USA.	250.00
12.	Incubator, Low temperature BOD, model 805, 115 volts, 60/60 cyc. with a transformer 230/115 volts, 500 wts.	31213	-do-	500.00
13.	Electric Blender, 220 volts, .	375 A 505	Turtox General Biological Supply House, 8200, South Hoyne Avenue, Chicago-20, USA.	53.00
14.	Micrometer discs, 6 nos.	325 A 64 A.	-do-	42.00
15.	Micrometer discs, 4 nos.	325 A 64 C.	-do-	56.00
16.	Micrometer disc., Whipple's, 4 nos.	325 A 64 D.	-do-	56.00
17.	Extra-heavy bolting Cloth, with 33 meshes per linear inch, 5 yds.	105 A 6042 E.No. 34.	-do-	970.00
18.	Standard bolting Cloth, 3 yds.	105A 604 E.No. 25.	-do-	126.00
19.	Standard bolting Cloth, 5 yds.	105A 604 C.No. 12.	-do-	75.00
20.	Barnstead PM-2, Purity meter with rubber dip. cell, model PM-2 BE, 220 volts.		Barnstead Still and Sterilizer Co., Boston 31, Mass. USA.	150.00
21.	Clarke and Bumpus Plankton sampler. Kohl		Kohl Scientific Instrument Corp., P. Box No. 1166, El Cajon, California, USA	200.00

OR

G.M. Manufacturing Co. 50 West, 3rd Street, New York 12, USA.

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1	2	3	4	5
22.	Salinity-Temperature-Depth (STD) recorder	Kohl Scientific Inst. Corp., Elcagon <u>OR</u>	G.M. Manufacturing Co., New York.	200.00
23.	Delineascope, Model B, 115 volts; 500 wt. lamp.	American Optical Co. Chelsea, 50 Mass. USA.		250.00
24.	Ekman dredge.	D. Ballauf Manufacturing Co., 619-21, H Street, N.W. Washington, USA.		50.00
25.	Rotating spindle viscometer (Brookfield model LVF Viscometer)	The Brookfield Engineering Laboratory, Stoughton, Mass. USA.		10.00
26.	Kemmerer Sampler.	D. Ballauf Manufacturing Co., Washington, D.C.		25.00
27.	Stainless Steel Hydrosol Unit (Universal type) for filtering bacteria and millipore filter discs (500 nos.)	Lovell Chemical Co., Westertown 72, Mass. USA.		100.00
28.	Colour films, 35 mm for transparencies and also for negatives. (25 roles.)	Agfa.		100.00
29.	Molecular model of DNA	Central Scientific Co. Irving Park Road, Chicago-13 USA.		15.00
TOTAL:				\$ <u>5388.00</u>

CONSIGN TO :- PROFESSOR O.S. REDDY
 HEAD OF THE DEPARTMENT OF GENETICS
 OSMANIA UNIVERSITY: HYDERABAD-(A.P.)-India.

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TITLE & TYPE OF THE EQUIPMENT (2)		CATALOGUE NO. (3)	SOURCE & MANUFACTURER (4)	COST (₹) (5)
Automatic 755 projector complete with saddle fan case, one slide tray and 7" f/3 projection lens with arrangements for operation on 220 V, 50 cycles to 115 volts.	1	63-24-24-67	Bosch & Lamb.	170.50
30 capacity nonspill slide tray	1	63-24-40	-do-	1.95
5 foot remote control cord	1	63-25-01	-do-	₹.95
30 foot remote control cord	1	63-25-02	-do-	7.95
7" f/3.5 projection lens		63-25-05	-do-	22.50
1 1/4" x 2 1/2" slide mounts 10 packets of 40		63-24-42	-do-	39.50
7" x 2" slide adopter - 20 packets of 20		63-24-41	-do-	12.50
Model IRM. combined Balloptican with 4" diameter 18" focus lens for opaque objects and 1 5/8" diameter 10" focus lens for slides		41-23-81-18	-do-	328.00
Extra 500 watt 115 volt prefocussed lamp with one spare bulb.		41-41-08	-do-	5.35
Tilting device		41-39-31	-do-	5.00

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(2)	(3)	(4)	(5)
Prismplex microprojector with achromatic objective (color coded red) 2.7 E.F. 28 N.A. 12x initial magnification.	42-63-59-01	-do-	150.00
Eascope for individual observation	42-63-66	-do-	107.00
Photographic attachment with plate holders for 4" x 5" plates or cut film	42-65-68	-do-	43.50
Viewing attachment.	42-65-70	-do-	54.00
Bifess, illuminator 100 W, 120 V Model PG-26	31-33-26-12	-do-	73.00
Lamp 100W, 120 V, filament for above illumination	31-31-34	-do-	2.10
Standard Model spectronic 20-340-650 for 60 cycles 115 V AC Incl. 12 selected 1/2 dia. test tubes 1 1/2" test tube adaptor, directions for use and plastic dust cover.	33-29-61	-do-	295.00
Special transformer to adopt the spectronic 20 to 220 volt operation	Lt.-2	-do-	8.75
Adopter for 3/4" test tube	33-29-46	-do-	6.00
Adopter for 1" test tube	33-29-31	-do-	6.00
40 spencer precious rotary microtome with 826 knife holder No. 942 knife \$1 back 955 handle 3 objectidises and \$9 pike oil. 932 knives No. 2 extra \$1 knife backs. 932 Freezing attachment.	820.	-do-	91.00

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AO Table microscope illumination complete with 150 W 120 V clear day-light medium screw base lamp and cord two sets.	710	-do-	43.00
Replacement lamp 150 W 120 V clear day light medium screw base two sets	711	-do-	25.50
pH blood typing set -Gencobilogy Cat. 41361		-do-	28.00
Genco variable speed motorstiren electric friction cone device.	18802-1	-do-	98.25
Waxing blender, standard laboratory	Model 700	-do-	41.08
Micro kjeldahl digestion apparatus electric	22554	-do-	189.75
Pocket dosimeter, direct reading - six	71250	-do-	228.00
Flame photometer coleman model 21.2100	29920	-do-	495.00
Coleman comparison pH meter	21701	-do-	300.00
Hematocrit centrifuge IEC MB-3411	11644	-do-	195.00
Microcapillary reader IEC.2201	11647	-do-	49.50
Con-Rad/Jottes fluid emulsion system for radioautography for biological specimens complete unit.	11647	Controls for Radiation Inc. Cambridge 40 Massachusetts University B280	645.00
Cine Camera 16 mm Bell Howel	35008	Bell & Howel	200.00
Total :-			\$ 4,597.00

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CONSIGN TO :- DR. P.N. SRIVASTAVA
DEPARTMENT OF ZOOLOGY
UNIVERSITY OF RAJASTHAN
JAIPUR (Rajasthan) India.

33

No.	TITLE & TYPE OF THE EQUIPMENT (2)	CATLOGUE NO. (3)	SOURCE AND MANUFACTURER (4)	COST IN DOLLARS (5)
	Prothrombin test system Lab-Tex :Fisher	Cat. 1967	M/s Fisher Scientific Company.	221.20
	Platelet counting kit, Fisher	-103	-do-	225.00
	Hamatocrit percentage, Reader	-192	-do-	75.00
	Chromagram sheets, Eastman with Fluorescent indicator	-245	-do-	23.20
	Chromagram sheets, Eastman	-245	-do-	23.20
	Chromatography Media, Instant Thin Layer Type A, Gelman 8 x 8 Inches.	-245	-do-	13.00
	Chromatography Media, Instant Thin Layer Type A, Gelman 8 x 8 inches.	-245	-do-	20.00
6.	Chromatography Media, Instant Thin Layer Type A, Gelman 12 x 15 inches.	-245	-do-	16.00
7.	Chromatography Media, Instant Thin Layer Class Microfiber Gelman 12 x 15 inches	-245	-do-	36.00
8.	Chromatography Media, Instant Thin Layer Type SG, Gelman 2 x 8 inches.	-246	-do-	16.00
11.	Chromatography Media, Instant Thin Layer Type S G, Gelman, 8 x 8 inches.	-246	-do-	22.00
	Chromatography Assembly, Thin Layer, Reeve Angel, with Automatic Plate leveller.	-246	-do-	349.00

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(2)	(3)	(4)	(5)
<u>CHAMPAKS</u> :	(a) Bilirubin (Spinco 159-930) 293	M/s Thomas Scientific Apparatus, & Reagents. USA.	23.00
	(b) Calcium (Spinco 159-920) 293	-do-	9.50
	(c) Chloride (Spinco 159-921) 293	-do-	13.00
	(d) Cholesterol (Spinco 159-931) 293	-do-	9.50
	(e) Creatinine (Spinco 159-932) 293	-do-	13.50
	(f) Glucose (Spinco 159-934) 293	-do-	24.50
	(g) Phosphorus (Spinco 159-934) 293	-do-	11.50
	(h) Total Protein (Spinco - (159-935).	-do-	36.00
	(i) Urea Nitrogen (Spinco 159-937) 293	-do-	8.00
	(j) Uric Acid (Spinco 159-937) 293	-do-	11.50
Total \$:-4533.00

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CONSIGN TO:-

DR. D.N. KAMATH,
HEAD OF THE DEPARTMENT OF ZOOLOGY,
SHIVAJI UNIVERSITY: KOLHAPUR.

36

TYPE AND TITLE OF THE EQUIPMENT (2)	CATALOGUENO, (3)	SOURCE/MANUFACTURER (4)	COST IN DOLLARS (5)
820 Rotary Microtome: two AO Spencer Precision Rotary Microtome with No. 822 knife holder. Nos. 942 knife, 961 Back, 955 Handle and 969 Pike oil	820	M/s American Optical Company Instrument Division, Buffalo New York 14215 U.S.A.	1793.00
821 Rotary Microtome: - one same as above but with ultra-thin sectioning adaptor No. 829	821	-do-	984.00
New cryo-cut cryostat microtome - Model 830c. AO Spencer cryo-cut consisting of corrosion resistant rotary microtome knife Holder, Antirof guide, three object discs, Slide, Tray, cryo-cut cabinet and special lubricant (4oz.) complete for 230 V, 50/60 cy.AC	-do-	1795.00	
<u>Accessories for the cryostat microtome:</u>			
(a) Quick freeze chamber for use with CO ₂	834	-do-	45.00
(b) Heat extractor	836	-do-	35.00
(c) Special Lubricant (4 oz.)	970	-do-	2.50
(d) 120 mm microtome knife - two	942	-do-	53.00

Total cost: 4704.50 dollars

CONSIGN TO: PROF. K.N. NARAYAN
 DIRECTOR, SUMMER INSTITUTE IN BIOLOGY
 FOR COLLEGE TEACHERS
 MYSORE UNIVERSITY, MYSORE - INDIA

Seri No.	Type and Title of Equipment	Catalogue No.	Source/Manufacturer's Address	Cost in Dollars.
	Rotary Microtome Model 820, Precision Rotary Type. - One	12-601	A0 Spencer	850.00
	Microtome knives - 120mm with handles and backs. - Six	12-629,631,633	-do-	197.00
	Ultra thin adapter for the above microtome - One	12-602	-do-	75.00
	Freezing attachment for the above microtome (Co2) - One	12-626	-do-	42.00
	Sliding precision wood microtome Model 860. - One	12-613	-do-	1,075.00
	Knives with backs for the above microtome -250 mm and handles. - Three	12-629,631,633	-do-	261.00
	Stereoscopic Wide field binocular Model SVB-73 with manual table stand. - One	12-329-5	Bausch & Lomb	467.00
	Magnifiers, Coddington -14X - Sixty	12-625		460.00
	Microscope, Polarizing Model Lm-4 with Polaroid analyser and Polaryser - One	12-344	Bausch & Lomb	635.00
	Microscope Dynazoom Binocular - One	12-314	-do-	759.00
	Flash Evaporator, continuous rotary vacuum; Buchler, with heating and condensing baths - One	9-548-250V		313.00
	Centrifuge International Universal Type Model UV	5-115		795.00
Total:				\$ 6,039.00



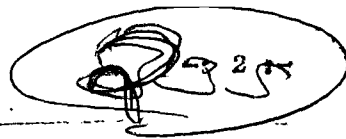
CONSIGN TO : Dr. G.T. Tonapi
Director, Summer Institute in Biology for College Teachers,
Department of Zoology,
Poona University, POONA (MAHARASHTRA, INDIA)

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Item No.	Title and type of Equipment	Catalogue No.	Source/Manufacturer's Address.	Approximate Cost (\$)
1	2	3	4	5
1.	Plankton towing Net marine type Model C. (Mesh No.12)	105A435	General Biological Supply House Inc. (Turtox), 8200, South Hoyne Avenue, Chicago, Ill. 60620, U.S.A.	35.50
2.	Replacement Bag for above marine plankton net (Model No. C) (12 mesh).	105A4351	-do-	25.60
3.	Diver's face mask (2 Nos.)	105A750	-do-	11.90
4.	Punch, Coleoptera	110A47	-do-	13.85
5.	Plastic case with vials (2 Nos.)	130A106	-do-	5.50
6.	Ecology collecting Sac Hausman	130A10	-do-	14.50
7.	Turtox Field collecting Bell	130A121	-do-	5.35
8.	Modified Berlese Funnel	130A1751	-do-	19.15
9.	The Tod lite for nature study	130A41	-do-	7.95
10.	Hot shot battery 6 volt.	130A411	-do-	5.10
11.	Mist sprayer 0.45 each (Two Nos.)	250A405	-do-	0.90
12.	Scissors, Micro Dissecting	308A353	-do-	34.95
13.	Automatic Pick up Tweezer size B.	308A353	-do-	6.95
14.	Osteological Electric Drill Flexible shaft with Rheostat, AC, with suitable stepdown transformer No. 330A501 for 220-250 V.	312A18	-do-	33.50 20.00

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1	2	3	4	5
				\$
15.	Extra collets series 600 for use with standard Hand piece; Size Nos. 601, 602, 603, 604, 444, 445, 446, 447 (1 each).	312A182	General Biological Supply House Inc. (Turtex), 8200 South Hoyne Avenue, Chicago, Ill. 60620, U.S.A.	13.20
16.	Mounting Cell Glass (2 Nos.)	320A19	--do--	29.00
17.	Precision Rotary Microtome Spencer 820	320A807	--do--	860.00
18.	Object discs for above microtome, Sizes 1 1/2", 1 1/8" and 7/8" (A, B, C) (one each)	320A808	--do--	6.75
19.	AO spencer microtome knives complete with case, handle & back. Size B (120 mm.) (3 Nos.)	320A870	--do--	109.50
20.	Binocular loupe with opti loupe.	325A2551	--do--	16.50
21.	Flash light pointer	330A565	--do--	20.90
22.	Thermostats (3 Nos.)	335A122	--do--	19.50
23.	Speedclave 777, with suitable Transformer for 230-250 volts	335A3440	--do--	253.00 20.00
24.	Hand tally Register (Two Nos.)	335A705	--do--	12.00
25.	Blood typing kit (2 Nos.)	335A7.	--do--	19.50
26.	Pantograph (2 Nos.)	380A285	--do--	7.00
27.	Transperent lettering guide, Sizes A, B, C.	380A327	--do--	5.95
28.	Lettering Pen (3 Nos.)	380A324	--do--	5.10

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1	2	3	4	5
29.	Balomatic 305, Automatic slide Projector (with suitable stepdown Transformer for 230 V)	63.25.58.04	Bausch & Lomb Optical Co. 635, St. Paul's Street, Rochester 2, New York, USA.	99.50
30.	Extra slide Trays for above (one Doz.)	63.25.42	-do-	15.00
31.	15 feet Remote control cord for above.	63.25.01	-do-	4.95
32.	Precision scientific Warburg Apparatus standard model. Complete, including Allen wrench, Thermometer, macrosset thermoregulator and Terminal Block for power connection 230 V 50 Cycles.	NYLAB 23400-4	New York Laboratory Supply Co. Inc.(NYLAB) 78, Varick Street, New York, N.Y.,USA.	875.00
33.	Manometer support, for the above warburg Apparatus, (Ten Nos.)	NYLAB 23430	-do-	65.00
34.	Stainless steel table stand for holding ten Warburg manometer supports.	NYLAB E3432	-do-	15.00
35.	Warburg Pyrex Manometers with 3 way ground glass stop cock (1 Dozen)	NYLAB 23433	-do-	184.32
36.	Warburg flasks, Pyrex, single side arm, Penny head stopper (one Dozen)	NYLAB 23450	-do-	115.56
37.	Bethlehem Glass blowing kit.	6063-B10	Arthur H. Thomas Company, Vine Street At third (P.O. Box 779), Philadelphia, PA. 19105, USA.	270.00
38.	Glass cutter 'Red Devil' (3 Nos.)	6065 -A	-do-	2.10
39.	Spare cutting wheels for above (2 Doz.)	6065-A2	-do-	8.64

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1	2	3	4	5
40.	Seitz filter -- seitz Mantenfel Laboratory model size 3, for 20-30 ml. quantity with open top for use with vacume only with yoke and screw at bottom disc size, 33 mm. diam. supported on wire guage (2 pieces).	5115 B	Arthur H. Thomas Company, Vine Street At third, (P.O.Box. 779), Philadelphia, PA.19105, USA.	34.00
41.	Filter discs - Type EK, pore size 1 micron (for serum) (10 nos.)	5115 -C	-do-	37.50
42.	Type K5 pore size, 2 micron (10 nos.)	-do-	-do-	30.00
43.	Filter support discs.(10 nos.)	5115 -D	-do-	10.00
44.	<u>Culturing tubes</u>			
	13 mm x 100 mm (2 cases (Per case 288))	1710	Bellco Glass Incorporation, Vineland, New Jerse, USA,	22.43
45.	16 mm x 100 mm (4 cases (per case 144))	-do-	-do-	28.80
46.	20 mm x 100 mm (4 cases (per case 144))	-do-	-do-	40.32
47.	Stainless steel caps for above tube with fingers (1 case(per case 144))	B -13	-do-	24.48
48.	-do-	B -16	-do-	24.48
49.	-do-	B -20	-do-	30.24
50.	16 mm x 125 mm - Roller tubes (2 cases (per case 144)).	1801	-do-	28.80
51.	Tissue culture tubes, 16 mm x 25 mm Window size 11 x 37 (2 cases(per case 36)).	1950	-do-	30.00

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42

	2	3	4	5
52.	<u>Rubber stoppers</u> No. 40 (2 cases (per case 144)) No. 4000 (2 cases (per case 144))	1922 1922	Bellco Glass Incorporated, Vineland, New Jersey, USA.	9.50 3.40
53.	<u>Rack self locking for tissue culture tubes</u> Leighton type 16 X 125 (6 pieces)	952	-do-	16.00
54.	<u>Delong culturing tube without closure</u> Capacity 10 cc (2 cases (per case 24)) " 50 cc (2 cases (per case 24)) " 125 cc (1 case (per case 12)) " 250 cc (1 case (per case 12))	650	-do-	19.20 38.40 14.40 15.60
55.	<u>Bykes Moore Tissue culture chamber (1 Doz.)</u>	1025	-do-	59.40
56.	<u>Cover slips 25 mm. round, G.I thickness</u> (10 ounces (120 per ounce)).	1025 c.	-do-	52.50
57.	<u>O. ring gasket of silicon rubber for</u> 2 1/2 mm. working distance (1 Doz.)	1025	-do-	4.20
58.	<u>Wrench assembly (1 1/2")</u>	1025	-do-	48.00
59.	<u>Holder for mounting chamber when</u> placed on microscope (1 Doz.)	1026	-do-	36.00
60.	<u>Sealable culturing dishes dia 40 mm.</u> (5 cases (per case 18)).	15-04	-do-	126.00
61.	<u>Sealable culturing dishes with side arm</u> (20 cases (per case 6)).	15-053	-do-	252.00

(43)

(239)

	2	3	4	5
62.	Vacutainer tubes 10 cc X 16.16 mm. (2 pkts. (240 in each pkt.))	3200	Beckton Dickinson & Company S.A., Apartado Postal 1173 Colon, Republica de Panama.	57.60
63.	Vacutainer tubes 20 cc X 6 1/2" X 5/8" (2 pkts. (240 in each pkt.))	3208	-do-	77.76
64.	Plastic Holder (Vacutainer Accessory) (2 Doz.)	3200 H	-do-	7.48
65.	G. 20 1" Needle (4 Doz.)	3200 N	-do-	17.28
66.	G. 22 1 1/2" Needle (4 Doz.)	3200 N	-do-	18.24
67.	Adapter Holder to leux needle (2 Doz.)	3200 A	-do-	11.04
68.	Needle cleaner (1 Doz.)	3200 c	-do-	13.86
69.	Needle steritube for 1" & 1 1/2" Needles with cap. (1 Box (144 per for)).	3200 D	-do-	5.20
70.	Needle Steritube caps (1 Gross).	400 c	-do-	3.84
71.	Leica Reprovit Ila unit complete.		E. Leitz, Inc., 468, Park Avenue South, New York 16, N.Y., USA.	250.00
72.	Leica professional film strip contact printer		-do-	120.00
73.	Leica Macro lens F/4.5 80 mm. Summar with adaptor ring.		-do-	35.00
74.	Leica Near focussing device.		-do-	20.00
75.	Leica Type A optical filters for Elmar 50 mm lens (set of six).		-do-	24.00
76.	Adjustable hood for 50 mm Elmar & 135 mm Hektor lens.		-do-	5.00
			Grand Total :-	5,002.25

240

CONSIGN TO:- Dr. SB Saksena,
Head of the Department of Botany
Saugar University, Sagar (M.P.) - INDIA.

44

TYPE & TITLE OF THE EQUIPMENT (2)	CAT. NO. (3)	SOURCE & MANUFACTURER (4)	COST IN DOLLARS (5)
Ecotocarpus for 100 students. - 10	2M311	Botanical Materials	30.00
Ecotocarpus for 100 students. - 10	2M312	-do-	7.50
Fucus vesiculosus	2M321	-do-	7.50
Fucus - 10	2M322	-do-	10.00
Fucus vesiculosus	2M33	-do-	7.50
Fucus vesiculosus	2M34	-do-	7.50
Fucus edentatus	2M325	-do-	7.50
Laminaria - 3	2M243	-do-	14.25
Polysiphonia for 100 students	2M44	-do-	9.00
Polysiphonia, cystocarps for 100 students	2M442	-do-	9.00
Podosphaera for 100 students	3M2165	-do-	7.50
Microsphaera for 100 students	3M217	-do-	7.50
Cronartium ribicola for 100 students	3M315	-do-	7.50
Cronartium ribicola for 100 students	3M3152	-do-	7.50
Gymnosporangium for 100 students	3M324	-do-	7.50
Economic Botany	Set GR-980	-do-	31.75

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(45)

(241)

1)	(2)	(3)	(4)	(5)
17.	Plant Fossils	Set CR-985	-do-	17.50
18.	Genetics	Set CR-990	-do-	16.35
19.	DEOXYRIBONUCLEIC ACID	T1-DNA	-do-	15.75
20.	RIBONUCLEIC ACID.	T2-RNA	-do-	15.75
21.	Chart Head and tripod	390D615	-do-	8.50
22.	<p>MICROSCOPE SLIDES :- Set BCHS, Set BCD, Set, BCI, Set BCM Set BC4, B1.12, B1.141* B1.142, B1.15, B1.17, B1.19, B1.211, B1.212 B1.2135, B1.214, B1.215, B1.217, B1.218, B1.211*, B1.222, Ba.226, B1.227, B1.231, B1.233, B1.236, B1.237, B1.239, B1.241, B1.242, B1.243, B1.244, B1.245*, B1.2434 B1.2437, B1.246, B1.247, B1.248, B1.251, B1.252, B1.253, B1.254, B1.255, B1.258, B1.262, B1.266, B1.267, B1.268, B1.221* - B1.322* B1.323* B1.33, B1.331, B1.335 B1.336, B1.337, B1.35, B1.361, B1.372* - B1.373*, B1.376, B1.38, B1.41, B1.43, B1.434 B1.437, B1.51, B1.52, B1.541*, B1.542*, B1.543*, B1.544*, B1.545, SET BTA.</p>			521.35
	<p>B2.11, B2.12, B2.13, B2.14, B2.151, B2.154 B2.225, B2.241*, B2.246*, B2.266*, B2.27, B2.28*, B2.311*, B2.312* B2.411*, B2.4413* B2.4419, B2.4422, B2.446, B2.447, B2.451, B2.461, B.467, B2.471, B2.451, B2.452, B2.511** B2.515, B2.516, B2.551, B2.558, B2.631*, B2.661 B2.663, B2.672, B2.673, B2.675, B2.71, B2.72, B2.725, B2.73, B2.741, B2.751, B2.87, B2.88, B3.12**, B4.113, B4.116, B4.124, B4.125,</p>			

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(46)

(2)

(3)

(4)

(5)

B4.216, B4.226, B4.131, B4.132, B4.136, B4.137
 B4.141, B4.156, B4.166, B4.266, B4.311, B4.321,
 B4.322, B4.325, B4.57*, B4.625*B4.662, B5.456,
 B5.468, B5.681, B5.711, B5.721, B5.714, B5.715
 B5.721, B5.744, B5.746, B5.821, - Set BPT, Set BPS
 B6.231, B6.2425, BF1.4*, BF1.5*, BF1.61*, BF2.11
 BF2.31, BF2.7*, BF.72*, BF3.21, BF3.22, BF3.52
 BF3.61, BF3.8, BF3.9, BF.42, BF4.5, BF5.1, BF5.3
 BF5.5, BF 7L.47, 7L.49, 7L65, 7L.71, 7L.74,
 8L.11, Set 15 TK**, 4GL.21, 42L.411, 42L.412, 42L.43
 42L.54, 42L.55, 42L.51, 42L.52, 42L.61, 42L.61
 42L.62, 42L.63, 42L.71, 42L.74, 42L.811, 42L.813
 42L.813, 42L.82, 42L.831, 42L.832, 42L.833,
 42L.841, 42L.842, 42L.843, 42L.844, 42L.86,
 42L.871, 42L.872, 42L.971, 42L.972.

* denotes 2 numbers
 ** denotes 4 numbers

23.	Davidson Continental observation Tripod-1	130A430	25.95
24.	Aquarium Thermometer. Floating - 4	205A52	3.80
25.	Aerating Outfit. White Mist - 1	205A601	21.15
26.	Botanical Spray Gun Model C on. and Off valve - 3	205A400	28.35
27.	Bulb Planter & Soil sampler - 2	250A410	3.00
28.	Combination soil testing set - 1	250A425	39.55
29.	Grafting kit size B - 2	250A60	9.00
30.	Thermos Ice chest - 1	315A5509	14.25

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243

(1)	(2)	(3)	(4)	(5)
31.	Precision Rotary Microtome - 1	320A807-820		860.00
32.	Model SSM-15 Student Stereo microscope - 2	325A390		100.00
33.	Microscope, Best Model A-75 - 1	325A4076		71.50
34.	GNA-3 - 1	325A453		270.00
35.	ES2UA-KW - 2	325A5062		770.00
36.	Realist (620) Color slide projector - 1	330A377		49.95
37.	AO Spencer Opaque Delineascope	330A170		370.00
38.	Accessories for 330A170	330A1700		
	(a) Carrying case - 1			48.50
	(b) Dust cover - 1			10.50
	(c) Extra 1000 Watt bulb - 5			33.75
39.	Micro-Projector, Trisimplex B & L - 1	330A20		150.00
40.	Eyepiece Camera Viewing Head for Photomicrography - 1	326A18		215.00
41.	Camera Unit 35 mm - one	326A181		50.00
42.	Slide sorter	330A350		4.95
43.	Filmstrip Previewer Carrying case - 1	330A3415		27.95
44.	Step-down Transformer 230V to 115 V			
	C. 250 Watts - 3	330A501		61.50
	D. 500 Watts - 3			76.50

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MS/4

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(2)	(3)	(4)	(5)
Wall Screens size No. H - 1	330A55		48.96
Esco Aluminum Glass Magic mounts - 10	330A901		27.00
Three Purpose Oven Electric for 220 V - 1	320A78		85.00
Vertical Autoclave, Gas Heated - 1	335A335		360.00
Centrifuge, Variable speed - 1	375A525		117.00
Stirrer, Electric - 1	375A44		38.50
Laboratory Grinder, Electric - 1	375A5070		14.95
Soil Test Thermometer - 2	376A237		25.00
Hygrometer, Mason's form - 1	376A275		12.00
Pantograph	380A285		3.50
Pencil sharpener. All steel super - 1	380A366		9.00
Transparent Lettering Guide Size A - 1	380A327		1.25
B - 1			1.75
C - 1			2.75
57. BIOLOGICAL STAINS			
Acid Fuchsin cert - 25 gm.			4.15
Aniline blue water Soluble - 100 gm.			8.60
Basic Fuchsin cert - 100 gm			8.60
Fast green FCF cert. 25 gm x 4			26.60
Janus Green B cert - 100 gm.			11.90
Neutral Red cert - 100 gm.			11.05
Pyronin B cert - 25 gm.			8.20
Vital Stains set of 10 satins - 5 sets			20.50

Total cost 7433.95

52

ORDER TO: PROF. A. ABRAHAM
DIRECTOR, ADVANCED LEVEL SUMMER INSTITUTE
IN GENETICS,
KERALA UNIVERSITY
TRIVANDRUM - INDIA

49

Item No.	Title and type of equipment/ chemical	Catalogue No.	Source/Manufacturer's Address	Cost in dollars
(1)	(2)	(3)	(4)	(5)
1.	T.C. Chromosome culture kits 50		Difco Laboratories, Detroit, U.S.A.	400.00
2.	Bacteriological Incubator- water jacketed.		Arthur H. Thomas Co., Philadelphia 5, Pa. U.S.A.	1,000.00
3.	Gentrifuge International Clinical		-do-	200.00
4.	Autoclave, Vertical Electric (220V) AG		-do-	380.00
5.	Ultraviolet lamp Spot light Black ray B-100		-do-	100.00
6.	Fibre glass Tissue culture hood with built-in ultraviolet light.		Lab-Con-Co., Kansas, U.S.A.	280.00
7.	Ph. meter, photovolt Heavy duty Portable		Photovolt, 1115 Broadway New York, N.Y. 10010	335.00
8.	Tape recorder with 25 tapes Norelec-200		Philips (Tape recorder \$300) Tapes \$125)	425.00
9.	35 mm slide holder (for projection) Metal 200 Plastic 200			50.00
10.	35 mm positive films (100 metres)			50.00
11.	SU-21 Alpha, beta, gamma survey meter (range 0.8 to 80 mr/hr)		Tracerlab, Waltham, Massachusetts, 02154.	250.00

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(1)	(2)	(3)	(4)	(5)
12. Kodak Nuclear Track Emulsion (Type NTB)	(4oz. bottles - 5 Nos.)		Eastman Kodak Co., 343 State Street, Rochester, New York N. Y. 14650.	190.00
13. Kodak Nuclear Track Emulsion (Type NTB)	2 Nos.		-do-	76.00
14. Kodak Nuclear Track Plate (Type NTB)	10 packets		-do-	180.00
15. Kodak Nuclear Track Plate (Type NTB)	3 packets		-do-	54.00
16. Kodak Fine Grain Autoradiographic stripping plate (AR 10)	3 packets		-do-	60.00
17. Kodak Developer - D-19	10 Nos.		-do-	25.00
18. Polaroid pack films (colour) suitable for series one hundred film pack adapter for Polaroid land camera back (No. CB-101667)	12 packets		American Optical Co.	96.00
19. Ethylmethane Sulphonate	10 gms		K & K Lab, Plain View New York, 11803.	10.00
20. Ethyleneimine	10 gms		-do-	10.00
21. 5 - Bromouracil	4 gms.		-do-	10.00
22. 5 - Aminouracil	10 gms		-do-	12.00
23. 1, 2, 3, 4 - Diepoxycutane	10 gms		-do-	12.00
24. 2,6-Diaminopurine	1 gm.		-do-	18.00
25. Acridine	100 gms.		-do-	8.00

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31

(1)	(2)	(3)	(4)	(5)
26. Nitrogen mustard HCl	10grs		K. & K. Laboratories, Plain View New York.	35.00
27. Colchicine	5 gms		-do-	30.00
28. Seed and Parts counter	1 No.		Agricultural Speciality Co. Inc. P.O. Box 795, Hyattsville, Maryland, U.S.A.	250.00
29. Disposable micropipettes (Kensco 0.05cc, 0.1cc and 1.00cc)	2 doz. each		Kensington Scientific Corp., 1165-67th Street, Oakland, California, 94608.	15.00
30. Laboratory counters Ser. No. 35067.	60		Clay Adams, New York	200.00
31. Refrigerator 13 cft with separate deep freezer)	1		Westinghouse or GEC	400.00
32. Kodak fixing bath F.5 (acid fixer)	10 Nos.		Eastman Kodak Co., 343 State St. Rochester, New York, N.Y. 14650.	25.00
33. Black tape electrical pressure sensitive adhesive plastic 0.007" thick and 3.4" wide.	20 Nos.		Plymouth Rubber Co. Inc., Danton, Massachusetts.	20.00
34. Wratten Safe Light series No.1 (bracket type)	4 Nos.		Eastman Kodak Co., 343 State St. Rochester, New York, N.Y. 14650.	100.00
35. Black slide boxes for autoradiography	60 Nos.		Clay Adams Inc., New York.	60.00
36. Magnetic stirrer	2 Nos.		Precision Scientific Co., Chicago	15.00
37. Magnetic stirring rods	10 Nos.		-do-	5.00
38. Magnetic pick up rod (polyethylene coated).	2 Nos.		-do-	5.00
			Total:	\$ <u>5,291.00</u>

248

CONSIGN TO :- PROF. KK NAYAR
HEAD OF THE DEPARTMENT OF ZOOLOGY
UNIVERSITY OF KERALA: TRIVANDRUM (Kerala) India.

52

No. (1)	Type & title of the equipment (2)	Cat. No. (3)	Source and Manufacturer (4)	cost in dollars. (5)
1.	Phoroslide Cell Complete - 2	XE21 000 15	M/s Millipore Corporation Bed Ford Mass, 01730	70.00
2.	Cell Base - 2	XE21-000 16	-do-	18.00
3.	O-Ring (packet of 2) - 2	XE21 000 17	-do-	4.00
4.	Cell Cover Assembly - 2	XE21 000 18	-do-	44.00
5.	Applicator Dropper - 2	XE21 000 19	-do-	6.00
6.	Phoroslide Applicators packet of 2. - 2	XE21 000 21	-do-	26.00
7.	Phoroslide Forceps - 2	XE21 000 35	-do-	3.00
8.	ECwer Module (220V) - 2	XE21 000 00	-do-	196.00
9.	EXPENDABLE MATERIALS: Phoroslides (box of 100) - 2	ESWM 031 OR	-do-	30.00
10.	Barbital Buffer (pkg. of 12 x 120ml bottles) - 2	XE21-000 42	-do-	10.00
11.	Ponceau-S Conc. (Pkg. of 24 x 2 ml ampoules) - 2	M000 000 2B	-do-	10.00
12.	Parafilm (4" x 125" roll) - 2	XE21 000 46	-do-	8.60
13.	Blotter Pada (box of 100) - 2	AF10 042 OR	-do-	8.00
14.	Phoroslide Record Envelopes (Box of 500) - 2	XE21 000 48	-do-	30.00
15.	ACCESSORIES :- Simple Cover Caps (pak. of 12) - 2	XE21 000 37	-do-	4.00
16.	Solution Trays (pkg. of 6) - 2	XE21 000 40	-do-	6.00

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(299)

- 2 -

	(2)	(3)	(4)	(5)
1. Ampouls Breaker - 2		XX62 000 07	-do-	5.00
2. Analytic (R) Adapter Plate - 2		XE20 000 10	-do-	64.00
3. Adapter Cord Set ** - 2		XE20 000 13	-do-	8.00
4. Wash Bottle - 2		XE21 000 47	-do-	2.50
5. Balance, Torsion type, Directoreeding Double hook - 1		20-050	M/s Clay Adams Incorporated 141 East 25 street, New York 10010	290.00
6. Balance, Harvard Trip, Double beam, Ohaus Model 1510 capacity 2000 g. - 1		2-052-5	-do-	23.50
7. Balance, Dietary, spring capacity 500 g.-1		2-127	-do-	14.00
8. Analytical balance Mettler Model M5 - 1			-do-	1450.00
9. Interval timer, Gilbert - 1		6-660	-do-	34.50
10. Fine Microdissecting forceps - 12		A-1909	M/s Fisher Scientific Co. 633 Greenwich Street, NY	45.00
11. Autoclips 9 mm - 1000		B-2355	-do-	28.50
12. Hard Arkansas stone, 3 x 1 x 1/4" - 3		A 99	-do-	13.50

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54

(2)	(3)	(4)	(5)
Human Chorionic Gonadotropin. -45,000 iu	7403	K's Mann Research Laboratory Inc. 133 Liberty Street, New York UNITED STATES OF AMERICA	28.00
Estrone 1 gm x 5	2158	-do-	30.00
Estradiol\No.879 1 gm x 5	879	-do-	26.00
Estriol - 1 gm	6724	-do-	45.00
Thyroid powder 100 gm	7165	-do-	2.50
Thiourea 50 gm	1067	-do-	3.00
Progesterone 1 gm x 5	3505	-do-	4.45

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- 4 -

(1)	(2)	(3)	(4)	(5)
36.	Acetyl cholinesterase 12,000 u	186	-do-	60.00
37.	Acetylcholine chloride - 100 gm	3276	-do-	3.90
38.	DPN (NAD) 500 mg x 2	7078	-do-	27.00
39.	TPN (NADP) 100 mg x 2	7451	-do-	33.00
40.	Nitro (BT) - 1 gm	2044	-do-	45.00
41.	LH NO. 2253 100 mg	2253	-do-	24.00
42.	Testosterone 1 gm x 5	1875	-do-	8.50
43.	Androstene dione 1 gm x 5	236	-do-	15.00
44.	Cortisone 1 gm x 2	1823	-do-	18.00
45.	FSH 200 mg.	5556	-do-	40.00

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(1)	(2)	(3)	(4)	(5)
46.	Oxytocin 1200 iu	913	-do-	21.00
47.	Insulin 10,000 iu	4426	-do-	30.00
48.	Actinomycin D, 5 mg	2697	-do-	50.00
49.	Mitomycin C 2 mg. x 5	5187	-do-	40.00
50.	Puromycin di HCl 25 mg.		-do-	13.25
51.	Noradrenalin (DL-Arterenol HCl) 10 gm.		M/s Sigma Chemical Company 3500 Dekalb Street. St. Louis MO 63118	32.50
52.	Adrenaline - 10 gm.		-do-	7.50
				<u>Total : \$ 3,105.60</u>

57

CONSIGN TO: PROF. R. MISRA
DIRECTOR, SUMMER INSTITUTE IN BIOLOGY
BANARAS HINDU UNIVERSITY, VARANASI - INDIA

57

S.No.	Catalogue No.	Type and Title of Equipment	Manufacturer & Make	Quantity	Cost in Dollars
1.	Model SR	Spectroradiometer, Wavelength range 380 to 1050 mu for operation on battery as well as line (portable unit)(with replaceable accessories)	M/s. Instrumentation Specialities Co. Inc. Seward Ave. Lincoln, Nebraska U.S.A.	One Complete Set	2000.00
2.	01230	Oxygen Bomb Calorimeter, Calorimetric thermometer and ignition unit(Complete for measuring Calorific value of biological materials)	-do-	One complete Set	1500.00
3.	249	Piche's Evaporimeter	M/s Science Associates Inc. Princeton, New Jersey, U.S.A.	Two Units	
4.	1175	Soil Max. Min. Thermometer: 40°C to +60°C range.	-do-	One	75.00
5.	636-3	Pyranometer - weather proof, integrating and indicating	-do-	One	395.00
6.		Battery operated vacuum pump(handy size)	-do-	One	
7.		Photometer for recording light intensity inside water(lake, pond, river).			
8.		Water, plankton samples and dredges for collection in freshwater bodies upto 50 feet depth.			
9.		Inflatable boat with life belts and inflatable pump Canvas boat with aluminium oars & metal hand pump 7'-10" x 4'-5'	Sears Roebuck and Co. Philadelphia Pa. 19132.	One	54.95
10.		Hypsometer(automatic) for direct measurement of tree height.			
11.		Quick moisture tester(from soil or plants and animals using infra red or neutron probe).	M/s. Soil Moisture Eqp. Comp. Santa Barbara, California.		

Total \$ 5,000.00

558

CONSIGNEE TO : Prof. V. Baliah, Director, Summer Institute in Chemistry
for College Teachers, Annamalai University,
ANNAMALAINAGAR (SOUTH INDIA) (INDIA)

58

S.No.	Type and title of the Equipment	Catalog No.	Source/Manufacturer Full address	Cost in Dollars
1	Infrared Spectrophotometer with spares and accessories. 1 No.	Model No. 137-G, 203-003	Perkin Elmer Corporation Norwalk, Connecticut U.S.A.	\$ 5,500
			Total	<u>\$ 5,500</u>

59

CONSIGN TO : Prof. R.C. Paul, Director, Summer Institute in
Chemistry for College Teachers, Panjab University
CHANDIGARH (INDIA)

59

S.No.	Type and Title of Equipment	Catalogue No.	Source/Manufacturer Full address	Cost in Dollars
1	Perkin Elmer Fractometer with Recorder and accessories - one complete set	154-0030	M/s. Perkin Elmer Corporation Norwalk, Connecticut, U.S.A.	2,090
2	Oscillometer-Chemical Null Balance precision type model V, Sargent	S-29180-02	Sargent 4647-W. Foster Avenue, Chicago, Illinois U.S.A.	825
3	Oscillometric cell compensator Linearising sensitivity increasing, Sargent	S-29196	-do-	105
4	Oscillometric recording adapter - zero and sensitivity adjusting, Sargent	S-29198	-do-	115
5	Thermometer-temperature controlling thermister activated, ± 0.01 to 0.001°C . Sargent Model S.	S-82050	-do-	290
6	Pump-liquid circulating centrifugal immersion type - motor driven Sargent	S-71565	-do-	150.
7	Power supply coulometric constant current, 0.1%, Sargent	S-30914-03	-do-	615
Total				\$ 5,130

256

CONSIGN TO : Prof. M.K. Raut, Director, Summer Institute in
Chemistry for College Teachers, Ravenshaw College
(Utkal University) CUTTACK (INDIA)

60

S.No.	Type and Title of Equipment	Catalogue No.	Source/Manufacturer Full address	Cost in Dollars
1	Infra-red Spectrophotometer with spares and accessories	Model 135-G 203-0003	M/s Perkin Elmer Corporation Norwalk, Connecticut, U.S.A.	5,500
Total				\$ 5,500

95

CONSIGN TO : Dr. (Miss) Deulkar, Director, Lady
Irwin College, Sikandara Road
NEW DELHI (INDIA)

61

S.No.	Title and Type of Equipment	Catalogue No.	Source/Manufacturer Full address	Cost in Dollars
1	Animal Balance, Triple Beam, Ohaus with animal holder	Arther Thomas Cat. No.(1965) 1101	Arthar Thomas & Co. USA	36.50
2	Tissue Grinder-Capacity 10 ml (2) and 30 ml (1)	4288-B	-do-	35.30
3	Shaker, Adjustable speed Vortex Genie	8929-S 10	-do-	59.50
4	Spatula (micro Hagman)	9007-B	-do-	1.65
5	Spatula (Semimicro)	9008-C	-do-	4.75
6	Precision Metabolic Shaker incubator (Dubnoff)	8924-P	-do-	600.00
7	Gas Chromatography		Perkin Elmer Corporation Norwalk Connecticut, USA	800.00
8	Beckman Spectrophotometer D.U. Model with Flame Photometer attachment			3000.00
9	Roller Smith Milligramme Range Balance Model L.G.	1886		308.00
Total				<u>\$ 4,845.00</u>

CONSIG.I TO: PROF. N.V. Subba Rao, Principal, University College
of Science, CSMANIA University, HYDERABAD (INDIA)

62

S.No.	Title and Type of Equipment	Catalogue No.	Source/Manufacturer Full address	Cost in Dollars
1	2	3	4	5
1	Combustion tubes for nitrogen analysis by micro Dumas method - (one case)	3883-A2	Arthur H. Thomas and Co. USA	51.50
2	Combustion tubes for Carbon & Hydrogen analysis (one case) -(6)	3883-A3	-do-	55.89
3	Grote combustion tube assembly - 1	3882-H	-do-	75.70
4	Combustion tubes for Grote Combustion A Assembly - 2	3883-H1	-do-	100.00
5	Constant temperature Chamber - 1	5686-A	-do-	80.00
6	Absorption tubes - 20	3854-P	-do-	225.00
7	Stoppers for 3854-P - 12	3854-C	-do-	60.00
8	Flask Thomas Schoniger - 2	6470-E	-do-	64.00
9	Flask Thomas Schoniger 300 ml capacity - 6	6471-B	-do-	45.00
10	Sample Carrier - 2	6471-D	-do-	50.00
11	Platinum Sample Holder -1	6471-D2	-do-	52.00
12	Renco-Evaporator, small size, 2000 ml - 1	4947	-do-	175.00
13	Buchler-Flash Evaporators - 1	4948-A	-do-	200.00
14	Buchler-Flash Evaporators - 1	4948-C	-do-	200.00
15	Hallow spindle - 2	4948-H	-do-	20.00
16	Buchler Universal flash Evaporators - 1	4949	-do-	300.00
17	Hallow Spindle - 2	4949-F	-do-	40.00
18	Drive belts - 4	4949-P	-do-	6.00
19	Evaporator Vessel - 2	4949-T	-do-	40.00
20	KBr disc holder Mount for solid samples consisting of Model -137 - 13 mm KBr disc holder (137-0949) and Place (220-0075)	220-C510	Perkin Elmer Corporation, Norwalk Connecticut, USA	110.00
21	Vial-Vibrator for KBr solid sample preparation - 1	021-0176	-do-	300.00
22	Hydraulic Press 30 Tons - 1	Acc-5040	-do-	300.00
23	Additional Recorder drum for rapid paper change, to use with Perkin Elmer Model-337, IR-Spectrophotometer, - 1	137--0064	-do-	45.45
24	Pens, to use with Perkin Elmer Model-137 IR-Spectrophotometer - 4		-do-	32.00

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Cells to use with Perkin-Elmer Model-337 IR-Spectrophotometer - 4		Perkin Elmer Corporation, Norwalk Connecticut USA.	32.00
Linear transmittance-linear frequency 4000-1200 cm - 1, Chart Paper 100 sheets per packet - 5 packets	337-1203	-do-	40.00
Linear transmittance-linear frequency 1300-400 cm - 1 Chart paper 100 sheets per packet - 5 packets	337-1204	-do-	40.00
Linear transmittance-linear wavelength 2.5 to 15 chart paper, 100 sheets per packet. - 10 packets	137-1281	-do-	80.00
Four -OZ-bottle-Varian red Ink - 1	990-6015	-do-	2.00
Four -OZ-bottle-varian Green Ink - 1	990-6015	-do-	2.00
Four -OZ-bottle-Varian Black Ink - 1	990-6015	-do-	2.00
1/2" Magnetic stirrer rods - 10 Nos.	0723-91	Chemical Rubber Co. Cleveland, Ohio, USA	
1/2" Magnetic stirrer rods - 10 Nos.		-do-	51.00
Thermostat bath, relay, stirrer with thermo regulators - 1 No.	9934-G	Arthur H. Thomas & Co. USA	350.00
Contact thermometers for temperature control - 2	9655-G	-do-	160.00
Hydrogen Lamp to use with Beckman D.B. spectrophotometer - 1	8333	Beckman Incorporation, Fullerton California, USA	100.00
Glass & Chemical Electrodes for L & N PH Meter 7666 - 4 pairs	1-Std.1199-30 Glass 1-Std 1199-31 Ref.	Leeds & Northrup, USA	100.00
Spectroscope, Hand, Zeiss Winkel - 1 No.	9037-#	Arthur H. Thomas & Company, USA	270.00
Flame Photometer - 1 No.		Perkin-Elmer Corporation, Norwalk Connecticut, USA	900.00
NaCl seeded Cell for liquid samples 0.1 mm. thick - 1 Matched pair	137-1290	-do-	110.00
KBr sealed cell for liquid samples 0.1 mm. thick - 1 Matched pair	127-1290	-do-	110.00

Total \$ 4,984.09

CONSIGN TO: Prof. RC Mehrotra, Director, Summer Institute in
Chemistry for College Teachers, Rajasthan Univ.
Jaipur.

64

Type and Title of equipment.	Catalogue No.	Source/Manufacturer with full address.	Cost in Dollars.
(2)	(3)	(4)	(5)
Isotope-Hydrogen analyzer, Coleman Model 33 Complete	33-00	M/s. Coleman Instruments Inc. Maywood, Illinois.	2150.00
Transformer, Step-down 220-110V, 5750 va, 60/60 cy.	29-059	-do-	110.00
Reagent, Coleman CUPROX	29-130	-do-	13.00
Reagent, CUPRIX OXIDE (Fines)	29-140	-do-	6.00
Reagent, acetanilide standard, Crystalline, 2 gms	29-150	-do-	6.00
Cover, instrument	29-200	-do-	4.00
Tube, Combustion, Quartz, 10 mm	29-320	-do-	125.00
Tube, Combustion, quartz, 12 mm	29-325	-do-	135.00
Rack, for tubes, and accessories	29-420	-do-	23.50
Reagent, Manganese dioxide,	33-110	-do-	8.50
Wool, Quartz, 2 packages	33-120	-do-	22.50
Reagent, silver vanadate, 40 gms	33-130	-do-	16.00
Reagent, coleman COSORB, indicating CO ₂ absorbent	33-140	-do-	7.50
Tube, absorption, with rubber stoppers	33-330	-do-	23.00
Tube, absorption, ground glass pkg: of 2	33-335	-do-	74.00
Tube, treating, with neoprene washers	33-340	-do-	9.00
Tongs, absorption tube	33-430	-do-	4.00
Locks, cooling, with tongs	33-440	-do-	15.00
Locks, cooling set of 2 without tongs	33-441	-do-	12.50
Shield, protective	33-450	-do-	23.50
Directions, operating	33-900	-do-	4.00
Evacuable KBr Die	186-0025	M/s. Perkin Elmer Corp. Connecticut, USA	175.00
KBr Disc holder	137-0940	-do-	27.00
KBr Vibrator KBr solid sample preparation	021-0176	-do-	300.00
8 ton 22 Ton Hydraulic Press (341-20) with three sanchion and hand wheel to adjust the head.	186-0005	-do-	780.00

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Variable Space Cell with FBr windows	127-1268	M/s. Perkin Elmer Copr. USA	395.00
KBr Windows one pair	027-1270	-do-	60.00
Organic Atom Model Kit	12-821	M/s. Fisher Scientific Co. USA	85.00
Metal-Coordination Atom Model Kit	12-822	-do-	87.00
Silicon Atom Model (Grey)	Si-1	-do-	10.80
F-1 Fluorine Atom Model (Ivory)	F-1	-do-	10.80
Phosphate Phosphorus Atom Model (Magenta)	F-1	-do-	10.80
Phosphine Phosphorus Atom Model (Magenta)	P-2	-do-	5.00
Atom Connectors	12-824-5	-do-	3.50
Connector Lifter 10 Nos.	12-824-10	-do-	96.00
Molecular Atom Model kit	12-826	-do-	9.50
Tetrahedral Carbon	12-826-2	-do-	14.70
Isolated Double Bond	12-826-2	-do-	14.70
Conjugated Double Bond	12-826-3	-do-	14.70
Aromatic Double Bond	12-826-4	-do-	13.60
Carbonyl Group	12-826-5	-do-	9.90
Divalent Oxygen	12-826-6	-do-	13.60
Trivalent Nitrogen	12-826-7	-do-	10.10
Triple Bond	12-826-8	-do-	

TOTAL:

5,018.80

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CONSIGN TO: Dr. (Miss) KK Rohatgi, Director, Summer Institute
in Chemistry for College Teachers, Jadavpur
University, CALCUTTA-32 (INDIA)

66

Type and Title of Equipment.	Catalogue No.	source/Manufacturer with full address.	Approx. cost in Dollars.
(2)	(3)	(4)	(5)
Atomic and Molecular Models - Crystal Models giving different types of lattice	12-826	Saregent	100.00
Spectronic 20		Bausch & Lomb	341.00
<u>Vapour Phase Chromatograph with recorder and accessories.</u>	Model 154D	Perkin Elmer	3090.00
Spares for Beckman DB Spectrophotometer	Chart No. 93512	Beckman/Instruments, Inc. Fullerton, California, Chart	150.00
1. Graph Paper		-do-	
2. Mercury Cell 3+2542575 Part No. S-2422045 ET AL-242539-2636062-2712565	289-035903 8333(5A)	-do-	
3. Hydrogen Lamp		-do-	
4. Tungsten Lamp - Type 2331.6 volts 0.39 amp.		-do-	
5. 3 pin plugs & sockets (US domestic type 14A.125V) :6 pairs			
2 pin plugs & Sockets (US domestic type 15A, 125 V) :6 pairs.			
Levitone adopter 2 pin to 3 pin 15A-125V GR (UL) :6 "		Perkin Elmer	200.00
<u>ACCESSORIES FOR THE MODEL 337 INFRACORD SPECTROPHOTOMETER</u>			
1. Chart-Non-Linear Absorbance, Frequency 400-1200 cm.	337-1207		
-do- 133.3-400 cm-1 (500 sheets)	337-1208	-do-	
Na Cl Sealed Cell for liquid sampling Thickness 10 & 50 mm & 1mm (500 sheets)	127-1190	-do-	
Na Cl Window for the demountable cell mount 38.5 mm x 19.5 x 4.0 mm thick (2 each kind)	027-1182	-do-	
Na Cl Microcell for small quantities of sample in solution, Thickness 05 x 10 mm. (1 each)	327-118	-do-	
Mechanical Assembly - Microcell	137-0918		

2	3	4	5
Reusable KBr die for Solid samples 13 mm diameter disc, thickness to 1.5 mm.	186-0002		
Disc Holder for solid samples	137-0949		
Vial Vibrator for KBr solid sample preparation & Hydraulic Press	021-0176		

CO₂ & H AND NITROGEN

Combustion furnace		S-21580	EH Sargent Company Ltd., USA	950.00
Pressure regulator	:2	S-49145	-do-	150.00
Stop Clock - 3 way	:1	S-49155	-do-	
Bottle Assembly, Mariotte	:1	S-49255	-do-	
Preheater, Micro	:1	S-49345	-do-	
Absorption tubes 190 mm	:6	S-49595	-do-	
U-tube & bubble counter	:1	S-49895	-do-	
Drying tube, terminal	:1	S-49645	-do-	
Preheater furnace	:1	S-49435	-do-	
<u>Accessory for N.</u>				
Kipp generator	:1	S-49875	-do-	TOTAL: 4931.00
Stop Cock, Capillary, 3 way	:1	S-49825	-do-	
Connecting tube, Capillary	:1	S-49835	-do-	
Nitrometer	:1	S-49905	-do-	

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CONSIGN TO: Dr. V. K. Phanskar, Director Summer Institute in Chemistry for College Teachers, Poona University, POGNA (INDIA)

68

S.No.	Title and Type of Equipment	Catalogue No.	Source/Manufacturer Full address	Cost in Dollars
2	3	4	5	
1)	Act-O-Matic Projector for overhead projection. One set		The laboratory furniture Co, Old Country Road, Mineola New-York.	400
2)	'TDS' devices for the above projector. One Set.		Central Scientific Co. 1700 Irving Park Rd. Chicago 13, Ill.	125
3)	Class-Master or Radloactivity demonstration Unit-One Set		Nuclear Chicago Corporation of tracer Lab.	
4)	Molecular Model Kit Fisher-Hirschfelder Taylor type-One Set	7251	Arthur H. Thomas Co. Vine St. Philadelphia 5, PA, U.S.A. Catalogue 1965	85
5)	(a) Material for 'Rapid Electrophoresis with Sepraphore-III. Cellulose Polyacetate strips 3-packets (100 strips each.)	51100	Gelman Instrument Company 601-south Womger Road P.O. Box 1448. Ann Arbor, Michigan (U.S.A.)	100
	(b) Gelman Electrophoresis Sample Applicator. Two only.	51220	-----do-----	22
6)	Waring Blender. One Set	4281-B10	Arthur Thomas Co. Vine St. Philadelphia 5, Pa U.S.A. Catalogue 1965	69.95
7)	Blending assembly standard size for waring blender No. 4281-B 10-One Set	4282-E	-----do-----	3.50
8)	Teflon covered stirring bars	9235-U.11	-----do-----	52.5
	Octagonal Length 5/8"-6			
	1"-6			
	1 1/2"-6			
	1 3/4"-6			
	1 7/8"-6			
9)	Pick-up rod Magnetized, octagonal 4 Set	9235-U.14	-----do-----	7.00
10)	International model HF High-speed centrifuge, one Set	2968-D.10	-----do-----	860.00

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1	2	3	4	5
11)	Melting point apparatus with periscopic thermometer Reader & Thermometer Illuminator, One Set	6406-M	Arthur Thomas Co. Vine St., Philadelphia 5, Pa U.S.A. Catalogue 1965.	244.00
12)	<u>Spectronic 20</u>		Bausch & Lomb, Incorporated Rochester, New York, U.S.A.	-
	1) "Bausch & Lomb" Transistor Regulated "Spectronic 20" Colorimeter-Spectrophotometer, range 340mmu. to 650mmu., tropicalised, complete with step-down transformer, for operation on 230-Volts 50 Cycles A.C. One Set	33-29-61-98.	Bausch & Lomb, Incorporated, Rochester, New-York, U.S.A.	455.00
	2) Infra-Red Sensitive Tube and Filter for extending range from 625 to 950 mmu. One Set	33-29-18) 33-29-72)	-----do-----	7.00
	3) Reflectance Attachment, with power supply, magnesium carbonate block, packet of 50C.I.E. Trichromatic Charts (for using "Spectronic 20" as Colour Analyser, One Set	33-29-44-01	-----do-----	305.00
	4) Microcell Assembly including holder adapter and 1 pair of microcells. One Set	33-29-14-01	-----do-----	104.00
	5) Adapter for 3/4" Test Tube - One Set	33-29-31	-----do-----	6.00
	6) Adapter for 1" Test Tube - One Set	33-29-30	-----do-----	6.00
	7) Adapter for 1/2" Test Tube, one included with instrument - one set	33-29-24	-----do-----	8.00
	8) Adapter for 1/2" cuvette, One set	33-29-49	-----do-----	8.00
	9) Light shield for use with 3/4" and 1" test tube - one set	33-29-32	-----do-----	2.50

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1	2	3	4	5
	10) Test Tube rack to hold six 1/2" Test Tubes and six Cuvettes. One Set	33-29-21	Bausch & Lomb, Incorporated, Rochester, New York, U.S.A.	3.50
	11) Not required for Transistor Regulated Model Catalogue No. 33-29-61-98	33-29-10	do	
	12) 1/2" Cuvette; inside dimensions 11.66 mm. Length 4", pack of 2. One Set	33-29-33	do	17.00
	13) Selected 3/4" Test Tube; inside dimension 16.8 mm., length 6", in box of 12-4 boxes	33-29-37	do	44.00
	14) Selected 1" Test Tube; inside dimension 22.35 mm. length 6" in box of 12- 4 boxes.	33-29-34	do	50.00
	15) REPLACEMENT PARTS. Infra-Red Sensitive tube, for extending range from 650 m to 950m. One Set	33-29-72	do	5.00
	16) REPLACEMENT PARTS. Infra-Red Filter.	33-29-18	do	1.5
	17) Selected 1/2" Test Tube; inside dimension length 4" in box of 12 2 Set	33-29-27	do	16.00
	18) LT-4 Step down transformer, 220/110 V., for use on 220-Volts 50 Cycles A.C. mains. (LT-4 replaces former L(T-2) One Set	33-32-01	do	9.00
	19) Extra 6-Volt Lamp (Box of 10) One box	33-33-85	do	27.00
	20) Pilot Lamp (Box of 10)	33-33-69	do	3.00

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1	2	3	4	5
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21) Eine Sensitive (Visible Region) Phototube, One box	33-29-71	Bausch & Lomb, Incorporated, Rochester, New York, U.S.A.	6.00
22) Amplifier Tube, 12AX7, Selected, One Set	33-29-75	do	7.00
23) Rectifier Tube, 6X4, One Set	33-29-54	do	3.00
24) Registered Printed Circuit, Tropicalized, with tubes- One Set	33-29-68	do	80.00
25) Backing Tube OA2, Gas Set	33-28-57	do	2.5
26) Fuse (Box of 5), 1/2" Dia.	33-29-73	do	1.50
27) Fuse (Box of 5), 3/8" Amp. Box	33-29-74	do	1.50
28) Packet of 50 C.I.E. Trichromatic Charts, One Set	33-29-12	do	5.00
29) Magnesium Carbonate Block, One Set	33-29-13	do	1.00
30) LE-31 Photomultiplier, 2 Set		do	5.00
31) Power Supply Tube, One Set	6De5	do	3.50
32) VXE-1001 Power Supply Tube, One Set		do	14.00
33) 115N OIOT Power Supply Tube, One Set		do	6.00
34) 1X2A Power Supply Tube, One Set		do	5.00
35) 0B-2 Power Supply Tube, One Set		do	3.00

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.....5.....

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1	2	3	4	5
13	Warburg accessories, One Set		Kontes-Vineland, New Jersey	59.50/ea
	a) Compensated Warburg manometer ...	—		
	b) Mounting clamp for standard shakers..... 4 only	—	"	32.00 (8x4)
	c) A differential syringe manometer complete..... One only	—	"	55.00
	d) a Warburg syringe manometer..... One only	—	"	40.00
14.	Microcombustion train	6444 -C	Catalogue (1965)	1183.00
	(a) Oxygen Direct determination Thomas Unterzaucher, One only		Arthur H. Thomas Company, Vine Street at Third; P.O. Box 779, Philadelphia.	
	b) Bubbler Counter, Two only	3859 - B	"	40.20 (20.10x2)
	c) Reagents for the direct Oxygen determination for Combustion apparatus.	6444 - C	"	
	i) Iodine pentoxide.		"	
	ii) Reduced Copper turnings bottles.		"	
	iii) Ascarite mesh 8 to 20, mesh 20 to 50 3 bottles.		"	42.00
	iv) Anhydrous- 3 bottles		"	
	v) Carbon-Wyrex Compact Black.		J.M. Huber Inc. available with Arthur H. Thomas Co.	18.00
	vi) Quartz wool and Quartz Chips.		"	The prices are not for known but could be about \$ 100
Total				4760.15

(All above items should be adequate for about 200 Combustion).

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CONSIGN TO: Prof. GV Asolkar, Director, Summer Institute in
Chemistry for College teachers, Nagpur University
NAGPUR - INDIA.

73

No.	Type and title of Equipment.	Catalogue No.	Source/Manufacturer and full address.	Cost in Dollars.
1.	Equipment for Vapour Phase Chromatography including automatic pen recorder.	Model 154D	Perkin Elmer	3090.00
2.	Spectronic 20 - Bausch & Lomb			341.50
			Total: \$	<u>3431.50</u>

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CONSIGN TO : Prof. G.B. Singh, Director, Summer Institute in Chemistry
for College Teachers, Banaras Hindu University, VARANASI (INDIA)

74

No. Title and Type of Equipment	Catalogue No.	Source/Manufacturer Full Address	Cost in dollars
Automatic Recyclic Preparative Gas chromatograph with flame detector, complete with 8 collector bottles, flowmeter, 20' column (3/8" diameter) flame head and base, electrometer and all necessary electric cable and connecting tubing for use with nitrogen carrier gas, including standard accessories (The column to be provided as standard accessory should have UCON oil 5550-X as the liquid phase and chromosorb W 80/100 mesh as support materials) and the following accessories :		M/s Varian Aerograph 2700 Mitchell Drive Walnut Creek, California 94598, USA	4,400
(a) one 20' column (3/8" diameter) liquid phase Apiezon L grease supported on chromosorb W 80/100 mesh.			50.00 approx
(b) one 20' column (3/8" diameter) using FS-1265 (Fluorinated silicon oil) as liquid phase supported on silicanized chromosorb W 80/100 mesh)			50.00 "
(c) Silicon injector gasket	- 4 dozens	69-0010	14.00
(d) Collector gaskets	- 2 "	69-0011	7.50
(e) Neoprene washers	20	15-0735	1.20
(f) Collector bottle Caps	12	69-0020	8.40
(g) O Ring Buna N	12	69-0023	3.60
(h) Fuse 3/8 amp	one pac.of 5	19-0013	1.50
(i) Fuse 12 amps	one pack of 5		0.85
(j) Column over heater repair kit	one		6.75
(k) Hydrogen Generator model 650	one	Model 650	375.00
			<u>\$ 5,118.00</u>

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CONSIGN TO: Dr. RD Patel, Director, Summer Institute in Chemistry
for College teachers, Sardar Patel University, Vallabh
Vidyanagar (Gujarat State) INDIA.

75

Type and Title of Equipment.	Catalogue No.	Source/Manufacturer with Address.	Approx. cost in Dollars.
Differential Scanning Calorimeter with Accessories (Recording type) - 1	DSC-1B	M/s. Perkin Elmer	6,000.00
Total: \$			<u>6,000.00</u>

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CONSIGN TO: Prof. G Gopala Rao, Director, Summer Institutes in
Chemistry for College teachers, Andhra University
Waltair - INDIA.

76

Type and Title of Equipment.	Catalogue No.	Source/Manufacturer with full address.	Approx. cost in Dollars.
(2)	(3)	(4)	(5)
Spectrophotometer, Double Beam, Coleman Hitachi Model 125 - for 220 volts, 50 cycles A.C.	--	M/s. Arthur H. Thomas Co. Vine Street At 3rd, Philadelphia, Pa. 19105 USA.	3,495.00
Temperature controlled cell Accessory with cell - for the above instrument.	--	-do-	250.00
Cooler, Immersion, Porta-Cool-4049-E10 for 220 volts, 50 cycles AC	--	-do-	295.00
Power supply - Coulometric, constant current, 0.1% Model parts - organic structure Atoms Pkg. of 72 of F. Pkg. of 72 of A Pkg. of 72 of E. Pkg. of 72 of G. kg. of 12 of B. kg. of 12 of C. kg. of 12 of D.	S-30974 S 61825	M/s. EH Sargent & Co. 4647, West Foster Avenue, Chicago, Illinois 60630 USA	600.00
6. Model parts - organic structure, common Linkage- Pkg. of 72 of A.	S-61845	-do-	1.50
7. Model Part - organic structure, Multivalent or unsaturated linkage - Pkg. of 12	S-61855	-do-	0.55
8. Models - orbital, combination set	S-61885	-do-	59.95
9. Pipette-Ultra Micro, Titrating, Manostat- Size - Capacity 1 ml.	S-69730	-do-	152.50

(Andhra Chemistry)

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2

3

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5

Apette Manipulator - Safety

S-69793

M/s. EH Sargent & Co.
4647, West Foster Avenue,
Chicago, Illinois 60630 USA

7.60

Thermoregulator, Electric "Micro-Set" Regulating
with Relay Unit, Thomas
The Relay Unit is for 220 Volts, 50 cy. AC

9655-G10
9655-R

M/s. Arthur H Thomas Co.
Vine Street at 3rd Philadelphia
Pa. 19105

109.50

TOTAL:

\$ 4993.10

210

CONSIGN TO: Prof.K. Venkateswarlu, Director, Summer Institute in Physics
Kerala University Centre, ALWAYE-4 , KERALA (India)

78

Title and Type of Equipment	Source/Manufacturer Full address	Cost in dollars
Model L-75B seven inch pole diameter Electromagnet with variable gap	Harvey Wells Corporation, Framingham Massachusetts, USA	3080.00
Rotating base of L-75L Electromagnet	-do-	800.00
Rolling stand for Model L-75B	-do-	275.00
Standard 5kw coils for Model L-75-B	-do-	1400.00
		<u>\$ 5555.00</u>

2710

CONSIGN TO : Prof. N.S. Panigrahi, Director, Summer Institute in Physics
for College teachers, M.S. University of Baroda, BARODA (INDIA)

79

S.No.	Title and Type of Equipment	Catalog. No.	Source/Manufacturer Full address	cost in dollars
1	Part A & B complete with all auxiliary apparatus and laboratory components so as to run all the experiments simultaneously - one part each complete		Berkely Physics Lab. USA	1020.00
2	Part C Auxiliary apparatus and laboratory components only - one part each complete		-do-	190.00
	Part D equipment necessary to carry out experiments as discussed in Laboratory Physics Parts C & D - one part each complete		-do-	700.00
3	Semi conductor detector double diffused planar passivated Detector		Technical measurement Coporation., USA	
4	Micro thermo-microwave Oscillator (100 watts 2450 Mc/Sec)		Raytheon company	
5	Thermal Neutron Source (Pu-Be) Source	Technical	Measurement Corporation	
6	Wave form Analyser	No.312 A	Hewlett Packard n	
7	Diffusion cloud chamber	No.33-840	Ealing Corporation	2455.00
				<hr/>
				\$ 4365.00

All mains operated equipment should be designed to operate on 220 V - 50 cycles.

CONSIGN TO:- Prof. SD Chatterjee,
Head of the Department of Physics,
Jadavpur University, CALCUTTA-32.

80

NO. TYPE & TITLE OF THE EQUIPMENT (2)	CATALOGUE NO. (3)	SOURCE/MANUFACTURER (4)	QUANTITY (5)	APPROX. COST DOLLARS (6)
Part A, Assembled	EPW-100A	M/s Heath and Company	Complete	500.00
Part B, Assembled	EPW-100B	-do-	Complete	500.00
Part C, Assembled	EPW-100C	-do-	Complete	500.00
Part D, Assembled	EPW-100D	-do-	Complete	500.00
Mossbauer effect demonstrator for Schools and colleges.		M/s Reuter Stokes Elect- ronic Components Inc. Cleveland : OHIO.		335.00
Electrometer	610 B	M/s Keithley Instruments OHIO.		565.00
Barnes Educational Spectrometer	Model 7001	M/s Raytheon Macalster Sc. Corporation.		440.00
<u>Low cost aids for teaching nuclear Science. :-</u>		M/s Atomic Accessories Inc. New York.		
(a) Scalethe System complete	SC-355C		One complete	350.00
(b) Minilab system complete	ML-295-B	-do-	One complete	194.00
(c) Radio-assay electroscope	RE-1050 K	-do-	One complete	125.00
(d) Projection meter	PM365	-do-	One	29.50
(e) Autoradiograph Kit	AR358	-do-	One	27.50
(f) BANTAM electrodeposition Unit	Unit Model ED-294	-do-	One	25.00
(g) Direct reading dosimeter with transistorized charger	Model DDR-862	-do-	One	58.00
Solid State detectors Si detector (Li doped or surface barrier) for a, b and r spectroscopy.		M/s ORTEC INC. TENNESSE 102 Midland Road, Oak-Ridge TENNESSE 37830.		100.00

contd...

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	(2)	(3)	(4)	(5)	(6)
7.	Photomultipliers Spectral response, UV visible & infra-red region 1650-8500A	EMI95580	M/s Ehitaker Corporation Gencom Division, 80 Express St. Plainview L.I.N.Y. USA.	Two	100.00
8.	Quarter window & S-11 Cathode Quantum efficiency 17% at 4200A		-do-	-Two	100.00
					<u>Total cost (\$)</u> 4,448.00

27A

CONSIGN TO: Prof. F.C. Auluck, Director, Summer Institute in Physics
for College Teachers, University of Delhi, DELHI-7 (INDIA)

82

S.No.	Title and Type of Equipment	Catalog No.	Source/Manufacturer Full Address	Cost in dollars
1	Nuclear Magnetic Resonance Spectrometer - one		M/s Alpha Scientific Lab. Inc. California, USA	445.00
	(a) AL 67 NMR			
	(b) AL-100MG, 100 KC and 1MC Crystal marker generator -four			87.00
	(c) Probes, A,B, D-1 - three			165.00
2	(a) AL 56 Electron Spin Resonance Spetrometer - one		-do-	445.00
	(b) AL 7500 M Electromagnet - one		-do-	565.00
	(c) 1",2",4" Pole Pieces - 3 pairs		-do-	195.00
3	Hall Effect Probes (2) - 2 and amplifier unit to detect and read Hall effect - voltages with direction and instruction manual - one	ALH-1	-do-	87.00
4	Magneto resistive, elements with experimental manual - 1		-do-	57.00
5	(a) Al-FI Faraday effect apparatus - one		-do-	70.00
	(b) Standard Slide Projector - one		-do-	49.00
	(c) Red green Blue Colour filters (one each) - three		-do-	10.00
6	Diffusion cloud chamber - three	17100	Macalaster Corporation Inc	10.00
7	Educational Electronic Analog Computer - one	EC-1	M/s Heath & Company, Michigan	236.00
8	Amateur Transister - one	DX-60A	-do-	95.00
9	Servo Recorder and multispeed charg driver assembly -one	EUW-20-ME	-do-	340.00
10	Leeds and Northrup Galvanometer -One	2705-10-R	M/s Welch Sc. Corporation	170.00
11	Eppley standard Call - Two	2273C	-do-	40.00
12	Educational Magnetic Amplifier - one	2642	-do-	100.00
13	Spot welding apparatus - one	2603-A	-do-	18.00
14	Magnetic field balance/ - one	2339	-do-	15.00
15	Electron Diffraction Tube - one	2639	- do-	300.00
16	Gusometer including standard transverse I Prob - one	Model 900	M/s Empire Sc. Corporation, Garden City, L.I. New York	550.00
17	Raytheon Klystron - one	RK 6253	M/s Raytheon Mang. Co. Waltham Massachusetts, USA	325.00
18	1 Broad Band Director reading Frequency meter - one	537-F	M/s PRD Electronics Inc. West Bury L-1, N.Y. 11590	290.00

\$4664.00

275

CONSIGN TO:-

Prof. PC Mahanta,
Head of the Department of Physics,
Gauhati University: GAUHATI (Assam) - India.

83

S. NO. (1)	TITLE & TYPE OF EQUIPMENT (2)	CATALOGUE NO. (3)	SOURCE/MANUFACTURER (4)	QUANTITY (5)	COST APPROX. (\$) (6)
1.	Model 10601 A Scintillation Detector with accessories.	Model No. 10601-A	M/s Hawlett Packard-	One set	835.00
2.	Power supply with accessories.	Model No. 5551-A	-do-	One set	350.00
3.	X-Y recorder.	Model No. 7035-A	-do-	One	895.00
4.	Solid State General purpose counter	Model 5211-A	-do-	One	600.00
5.	Low Temperature Accessory for N.M.R.	V-4257	M/s Varian Associates 61, Hansonway, Palo-Alto, California.	One set	23.50
				Total cost (b)	5,030.00

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279

CONSIGN TO: Prof. S. Chandrasekhar, Director, Summer Institute in Physics
for College Teachers, and Prof. & Head of the Department of
Physics, Mysore University, MYSORE (INDIA)

84

S.No.	Title and Type of Equipment	Catalog. No.	Source/Manufacturer Full address	cost in dollars
1	2	3	4	5
1	Lasertron Tube - 6 pieces	ULI 220	University Laboratories Inc. 1740 University Avenue, Berkeley, California 94703	1170.00
2	Complete Laser with Line operated supply 2 pieces	ULI 230	-do-	590.00
4	Tripod - 2 pieces		-do-	32.00
4	Cenco-Peterson Molecular Models	CENCO No. 71306	Central Scientific Co. 1700 West Irving, Park Road, Chicago 13, Illinois	330.00
5	Silicate Molecular Models	CENCO- NOYSE 71308	-do-	25.00
6	Pouleur Atomic Models	CENCO No. 71305	-do-	85.00
7	Variable Space Cell with Potassium Bromide Windows - 2 pieces	127-1268	Perkin Elmer Corporation, Main Avenue Norwalk, Connecticut, USA	720.00
8	Potassium Bromide Window, 38.5 mm x 19.5 cm x 4. mm thick drilled - 4 pieces	027/1283	-do-	44.00
9	1 Pack of lead spaces assorted - 2 each of the following thickness: 0.025, 0.05, 0.075, 0.1, 0.125, 0.15, 0.175, 0.20, 0.5, 1.0 mm - 10 sets (each one set)	186-0051	-do-	40.00

274
85
36

1 2 3 4 5

10	Beatable liquid cell with NaCl windows	021-380300	Perkin Elmer Corporation, Main Avenue, Norwalk, Connecticut, USA	249.00
11	Power supply	012-0419	-do-	180.00
12	Power Supply	124	-do-	157.00
13	Precision Power Source	Model 2005	Power Designs Inc. 1700 shames Drive, Westbury, N.Y.	350.00
14	Overhead Projector	56017 CENCO	Central Scientific Co. 1700 West Irvind Park Road, Chicago 13, Illinois	300.00
15	Sylvania Tru-Flector Projector Lamp 15 hours, 150 watts, 120 volts - 12 pieces	SYLVANIA DCL	Sylvania Electric Product Inc. Winchester, Kentucky, USA	120.00

4392.50

278

CONSIGN TO : Professor C. Mande, Director, Summer Institute in Physics for
College Teachers, Nagpur University, NAGPUR (INDIA)

85

S.No.	Type and Title of Equipment	Catalog No.	Source/Manufacturer Full Address	cost in dollars
1	Demountable X-ray tube : (Henke Type)	408440	Philips Electronic Instruments 750 South Fulton Ave. Mt. Vernon, N.Y. U.S.A.	1000.00
2	Sealed X-Ray tube: Machlett Tube A-2L with shockproof shield and cable with tungsten target		Machlett Laboratories Inc. Springdale Connecticut USA	1000.00
3	Debye-Scherrer Power Camera: Diameter 114.59 mm		Philips Electronic Instruments, 750 Fulton Ave. Mt. Vernon, N.Y. USA	500.00
4	X-ray Goniometer Head: Philips type equipped with stand and curved crystal Monochromator.	Goniometer: 52319 Monochromator: PW1152	-do-	1000.00
5	Spares for building X-Ray spectrographs in the laboratory			500.00
	(a) Soller Collimators: (two) Parallel slit Assemblies,		-do-	
	(b) Analyzing crystals for X-ray spectroscopy : Gypsum: 020 reflecting place Quartz: 101 reflecting place	52056 52356		
	(c) Scintillation Head Type SC-2		Nuclear Measurements Corporation Illinois, USA	
6	Frequency Meter: Military type TS-196/UP, 100 Mc/s with calibration chart and service diagram for 115 V 50c/s			495.00
				\$ 4495.00

279

CONSIGN TO :- Professor Shiva Yogi Tiwari,
 Department of Physics,
 Birla Institute of Technology & Science,
 PILANI(Rajasthan) India.

87

NO. (1)	ITEMS'S TITLE AND TYPE (2)	CATOGOLUGNO. (3)	SOURCE/MANUFACTURER (4)	QUANTITY (5)	COST IN \$ (6)
1.	Glass Blowing Kit	15000	M/s Maclaster Scientific Corporation MASSACHUSETTS	4	96.00
2.	Search Air Bearing Rotational Dynamics Apparatus.	11100	-do-	1	129.00
3.	Solenoid, Double - Coil	99	-do-	4	40.00
4.	Electromagnet	Model-7500	M/s Alpha Educational Instru. CALIFORNIA.	1	640.00
5.	NMR-EPR Spectrometer	" 675	-do-	1	495.00
6.	Power supply	" 7500 R	-do-	1	775.00
7.	Hall Effect Experimental apparatus *	E-5	-do-	1	95.00
8.	Magneto Resistance Apparatus	" E-6	-do-	1	95.00
9.	Power supply of operating OSRAM Spectral lamps	Edmund Cat. No. 85115	M/s Edmund Scientific Co. Barrington, New Jersey		99.75
	OSRAM LAMPS TO BE USED WITH THE ABOVE POWER SUPPLY:-				223.60
	Mercury			2	
	Cadmium			1	
	Cesium			1	
	Neon			1	
	Helium			1	
	Potassium			1	
	Rubidium			1	
1.	Special long focal length converging lens f= 183.3 cm. diameter 12.7 cm.	70-163	-do-		125.00
				Total cost \$	2,812.35

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CONSIGN TO: DR. DR BHAWALKAR,
Head of the Department of Physics,
Saugar University: SAGAR.

88

NO.	Title & Type of the equipment (2)	Catalogue No. (3)	Source/Manufacturer (4)	Cost in \$ (5)
1.	Gas Laser 44-7880 220 Volts 50 Cy. AC	715	M/s Maser Optics Inc. Boston	750.00
	<u>POLAROID CAMERAS & ACCESSORIES :-</u>		M/s Polaroid Corporation Cambridge, Mass.02139.	1000.00
	(i) One Model 57-1, X-ray Diffraction cassette XR-7		-do-	
	(ii) Accessories for the above. Model-57-2 & 57-8		-do-	
	(iii) Nets - one dozen	57-13	-do-	
	(iv) Nets - one dozen	57-15	-do-	
	Camera with all accessories for Lab. work - one	100	-do-	
	4 x 5 Land film holder - one	500	-do-	
	Exposure meter - one	628	-do-	
	Series 40, Polaroid Land roll film back Flash Gun, Chargeable from 220 AC mains.		-do-	
	<u>FILMS, POLAROID, FOR X-RAY AND LAB.WORK</u>			
	(a) 46-L - 6		-do-	
	(b) 146-L - 6		-do-	
	(c) 58 - 6		-do-	
	(d) 55 P/N - 6		-do-	
	(e) 107 - 6		-do-	
	(f) 108 - 6		-do-	
	(g) 3000 x - 6		-do-	
	(h) 1001 x - 6		-do-	
	(i) 413 - 4		-do-	
1.	Photometer with Photomultiplier complete unit to measure intensity of Phosphorescence and decay (220 V AC 50 cycles) - one complete unit.		Any make M/s Photo Research Corporation Hollywood, California 90038 USA	3100.00
	<u>PHOTOMULTIPLIER PHOTOMETERS FOR LUMINESCENCE MEASUREMENTS:-</u>			
	(a) Brightness spot Meter	15025-UB		
	(b) Power Pack for above 230V, 50 cy. AC	PSUL-UB		
	(c) Carrying case for Model 15025 UB cc-81			
	(d) Color Temperature Meter EMI-US-20			

28V

CONSIGN TO: Prof. J Bhimasenachar, Director, Summer Institute in Physics
for College teachers, Sri Venkateswara University, TIRUPATI- INDIA.

90

S.No.	Type and title of Equipment.	Catalogue No.	Source/Manufacturer with full address.	Approx. cost in Dollars.	
(1)	(2)	(3)	(4)	(5)	
1.	Pulse Transformer	: 8	GEP-95-111	The Gudeman Company, 7473 Avenue 304 California, USA.	50.00
2.	Pulse Transformer	: 4	GEP-90-111	Heath Company	44.00
3.	Valve 6 SU 5 Tektronics Inc. USA	: 10			18.00
4.	Chopper	: 10	James 1800	Heath Company	20.00
5.	Ceramic Disc Type Capacitances 1 KV				
	(a) .0.05 uf	: 24			
	(b) 0.01 uf	: 24			
	(c) 25 pf	: 24			
	(d) 560 pf	: 24			20.00
6.	Selenium rectifier	: 8	126-75-EQ	Staske Tarzan	10.00
7.	Variable capacitance	: 24	H WU-20	Hammerlund	19.50
8.	Ten turn precision potentiometers	: 4 Nos. each	Helipot A	Lectronic	40.00
9.	(a) 2K, 0-1 percent linear, 5 watt. (b) 10K, 0.5 percent linear, 5 watt (c) 30K, 0.1 percent, 5 watt.				
9.	Neon glow tubes	: 24	No. 2	Lectronic	5.00
10.	Photo tubes	: 2	Photo-tubes	-do-	30.00
11.	Photovoltaic strip 3/8" to 1/2" wide 2 long	: 12	Type S4Blue Sensitive strip	Welch Scientific Co.	
12.	Photo Voltaic strip	: 12	8 PVI AAB	General Electric	
13.	Zener Diodes (a) MZ 6.8 (b) MZ 8.2 (c) 250V Low (d) 10V, 60 mA (e) 6V, 60mA	: 24 each		Heath Company	
14.	Tunnel Diode	: 12	IN 2934	Heath Company	
15.	BNC Free plug	: 20	UG 89B/TJ	-do-	12.00
16.	BNC Free socket	: 20	UG 89/U	-do-	12.00
17.	R.F. Cable	: 20 metres	RG/59/U	-do-	20.00

.....2/-

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...3/- (Sri Venkateswara)

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	2	3	3	4	5
Wide band amplifier (standard rack mounting low frequency cut off 2KC)	: 1	WA-600-D		Arenberg Ultrasonic Laboratory Inc. 96 Green Street, Jamaica Plain, 30 MASS.	597.00
Precision Attenuator (RF) CA Cable set	: 1	ATT-693 Cable/ CA-600	set	-do-	112.00 75.00
Balancing network	: 1	WB-100		-do-	20.00
Photofluorimeter 220V, 50 cycles	: 1	Coleman-10-268 VI		Fisher	480.00
Filters for the photofluorimeter	: 12	10-268-5 through 22		-do-	130.00
Cuvettes for the above	: 1	10-268-24		-do-	24.00
Electron diffraction tube. Power supply for above.	: 1	2639-2639-A		Welch Scientific Co.	300.00
X-ray tubes copper anode (short anode type) for use on Philips X-ray unit PW 1009	: 1	Norelco. Type 25293		Norelco. Atomic Laboratory	450.00 100.00
Balmer tube		87206			
He-Ne Gas Laser tube - Spare tubes for the laser No. 87090	: 1	87090-3 S-357		Atomic Labs.	150.00
Magnetron Horn Magnet 15 lb.	: 15 lb in 4 no.	70476		Edmund Scie. Co. New Jersey	100.00
Concave grating reflection 3" diameter rules are 1 1/2" x 1 1/2" blaze 4000 A Radius of curvature 100cm No. 50 220.	: 2			-do-	150.00

TOTAL: 4,908.00

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CONSIGN TO Prof. P. Ramachandra Rao, Director, Summer Institute in Physics
for Teachers, Andhra University, WALT AIR (INDIA)

93

S. No.	Title and Type of Equipment	Catalogue No.	Manufacturer Full address	Cost in Dollars
1	Hewlett Packard Counter (1) one No.	Model 5245L	Hewlett Packard Co. California USA	2950.00
2	VHF Signal Generator 10-430 Mc/s	Model 608-E	-do-	1470.00
3	Tapetone			680.00
				<u>\$ 5100.00</u>

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MODIFICATIONS CARRIED OUT IN THE LISTS OF EQUIPMENT TO BE IMPORTED FROM UNITED STATES
FOR SCIENCE EDUCATION IMPROVEMENT PROGRAMMES - 1968:-

<u>PAGE</u>	<u>SERIAL NUMBER</u>	<u>MODIFICATION, ITEMS DELETED AS LOCALLY AVAILABLE OR NOT ESSENTIAL AT PRESENT</u>
1 - 3	2	deleted
	3 & 4	quantities reduced to 1/10th i.e. 5 per institute.
	5	deleted
3 - 7	-	list of films deleted
13	13	deleted alongwith the appendix.
14 - 22	-	deleted
23	3	(a) & (b) deleted
45 - 46	22	deleted
48	47 & 48	deleted
49	8	deleted
50	18	deleted
51	31	deleted
53	21 & 24	deleted
57	2	Substituted by cheaper model
79	7	Substituted by cheaper manufacturer
88	2	deleted

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SUMMARY STATEMENT OF THE LISTS OF EQUIPMENTS TO BE IMPORTED FROM THE UNITED STATES OF AMERICA
FOR SUMMER INSTITUTES PROGRAMS TO BE HELD DURING SUMMER 1968.

Section I List of equipment to be distributed to the participants
of college level summer institutes in chemistry & physics :- \$ 57,650.00 Pages 1

Section II Lists of equipment for the organisation of summer institutes
for :-

<u>COLLEGE LEVEL BIOLOGY INSTITUTES :-</u>			
	Ahmedabad	5,000.00	2
	Bombay	6,134.55	3 - 5
	Chandigarh	3,816.00	6 - 7
	Gorakhpur	3,194.50	8 - 11
	Hyderabad	5,388.00	12 - 14
	Hyderabad	4,597.00	15 - 17
	Jaipur	4,533.00	18 - 20
	Kolhapur	4,704.50	21
	Mysore	6,039.00	22
	Poona	5,002.25	23 - 28
	Saugar	3,967.60	29 - 33
	Trivandrum	4,371.00	34 - 36
	Trivandrum	1,365.60	37 - 41
	Varanasi	4,000.00	42

Total :- 62,113.00

<u>COLLEGE LEVEL CHEMISTRY INSTITUTES :-</u>			
	Annamalainagar	5,500.00	43
	Chandigarh	5,130.00	44
	Cuttack	5,500.00	45
	Delhi	4,845.00	46
	Hyderabad	4,984.09	47 - 48
	Jaipur	5,018.80	49 - 50
	Jadavpur Calcutta-32	4,931.00	51 - 52
	Poona	4,760.15	53 - 57
	Nagpur	3,431.50	58
	Varanasi	5,118.00	59
	Vallabh Vidyanagar	6,000.00	60
	Waltair	4,998.10	61 - 62

Total :- 50,216.84

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- 2 -

COLLEGE LEVEL PHYSICS INSTITUTES :-

Alwaye	5,555.00	63
Baroda	1,920.00	64
Jadavpur - Calcutta-32.	4,448.00	65 - 66
Delhi	4,554.00	67
Gauhati	5,030.00	68
Mysore	4,392.50	69 - 70
Nagpur	4,495.00	71
Pilani	2,812.35	72
Sagar	3,850.00	73 - 74
Tirupati	4,208.00	75 - 77
Waltair	5,100.00	78

Total :- \$ 47,174.80

G R A N D T O T A L :- \$ 227,154.64

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CONSIGN TO :- The Secretary, University Grants Commission
Bahadurshah Zafar Marg, New Delhi-I. (INDIA).

LIST OF EQUIPMENT TO BE DISTRIBUTED TO THE PARTICIPANTS OF COLLEGE LEVEL SUMMER INSTITUTES IN CHEMISTRY PHYSICS
TO BE HELD DURING SUMMER 1968.

S.NO.	TYPE & TITLE OF THE EQUIPMENT	CAT.NO.	SOURCE & MANUFACTURER	COST IN DOLLARS
<u>CHEMISTRY :-</u>				
1.	Vacuum Tube Voltmeter (VTVM) Kit Export Model 230V, 50 cy. for measuring DC & AC - 1500 volts resistance 0.1 ohm. 10C megohms Quantity - 630 numbers	IM-11E	Heath Corporation Benton Harbour, Michigan, USA	15,750.00
2.	Polaroid HN-film laboratory grade, size 6"x 6", 2 pieces for construction of simple polaroscope to view strains in unannealed glass - quantity 70 numbers	13-789 (Alca-V 69850-A) Fischer or Sargent 3-709489-A 2 required Welch 3709	-do-	560.00
3.	Glass blower's torch, light, weight for use as hand torch or on stand: supplied with stand, interchangeable tips and wrench for changing tips - Quantity 70 numbers.	4-6690 (Aloe TP 65183 Matheson 6690-20 (Sargent Philadelphia Pa. 19148 S-40355) Thomas 2649-D Wilkens - Anderson 9160	M/s Marshaw Scientific Jackson & Swanson St.	1,750.00
<u>PHYSICS :-</u>				
4.	Laboratory 5" Oscilloscope Kit, 5, MHz bandwidth, circuit board construction with vertical sensitivity 0.025 volts RMS per inch at 1 KHz: Rise time 0.08 microseconds or less Input impedance at 1 KHz 2.7 megohms or greater - Quantity 495 numbers.	10 - 12	Heath Corporation Benton Harbour Michigan, USA.	40,590.00
Total cost in dollars :-				57,650.00

Meeting:
Dated 6th March, 1968.

Item No.6: To receive a note on the number and locations of the summer institutes in English Language for college teachers to be organised during 1968.

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The Commission at its meeting held on 4th October, 1967 (Item No.8) was informed about the summer institutes in English Language Teaching for college teachers proposed to be held during summer 1968. It is now planned to hold ten summer institutes in cooperation with the British Council and the Central Institute of English, Hyderabad at the following centres:

Delhi	Hyderabad
Bombay	Ahmedabad
Poona	Madras
Bangalore	Madurai
Meerut	Nagpur

The institutes will be of three basic patterns:

- (i) Institutes of the usual type at Delhi, Hyderabad, Bombay, Ahmedabad, Nagpur and Meerut with enrolment restricted to a selected group of colleges.
- (ii) College based institutes at Madras, Bangalore and Madurai.
- (iii) Three phased institutes at Poona as detailed below:
 - (a) two week introductory course for participants;
 - (b) two week demonstration/practice Pre-University Course
 - (c) two week Pre-University English courses at the colleges of the participants.

In this connection it may be noted that the Commission has appointed a committee under the Chairmanship of Dr. D. S. Reddi, Vice-Chancellor, Osmania University to advise the Commission for bringing about closer collaboration between the Central Institute of English, Hyderabad and the University Departments of English through the summer institutes and follow-up activities and suggest ways of improving the teaching of English at the universities and colleges. Some of the important recommendations made by the Committee, indicated below, are for Commission's consideration:

1. The University Grants Commission may give necessary financial assistance for holding a Seminar of Heads of Departments, under the auspices of Central Institute of English, to consider in detail the report of the Study Group in English appointed by the Ministry of Education on the teaching of English in India as also the important recommendations made by the All India Seminar on Major Problems of English Language Teaching. The Commission may also favourably consider the possibility of sponsoring the seminar and issue invitations to Heads of Departments or alternatively the seminar could be held under the auspices of the Osmania University.
2. Central Institute of English qualifications should be treated as equivalent to teaching experience for appointment in the universities and colleges.
3. The Commission may provide necessary fellowships to teachers from the universities and colleges for joining the four-month diploma course as well the one year course in the C.I.E. through their respective universities.
4. Suitable incentives to the best participants as a part of the follow-up programme of the institutes may be given. The Commission may grant some kind of a scholarship in lieu of salary to some outstanding participants, so that they are able to avail of the advance training facility at the Central Institute of English. In the first instance the U.G.C. may

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- (4)
- (Contd). award two fellowships of Rs.400/- permonth to the
4. five best participants from each summer institute for a diploma course at the Central Institute of English. The participant would in addition receive a stipend of Rs.150 to meet board and lodging expenses from the C.I.E. This would apply only to teachers who would be granted leave with pay by the universities.
 5. The Committee made the following suggestions regarding the role of the C.I.E.:
 - (a) assist the U.G.C. in the staffing of the institutes in consultation with the university departments and in cooperation with the British Council,
 - (b) suggest in cooperation with the British Council, titles of books to be presented to each participant from year to year;
 - (c) associate its name with the summer institutes programme for 1968;
 - (d) arrange visits to the summer institute locations for 'on the spot' study and make recommendations for their improvement; and
 - (e) help in the holding of seminars in the universities through provision of experts and materials.

The British Council, as in the past, would be providing books and other materials for the institutes of the value of £ 1223, while the U.G.C. would be supplying the institutes with books to be presented to the individual participants costing approximately Rs.22,773. A statement showing the names of the Directors, British Experts and the Indian supporting staff is attached (Appendix I).

The matter is placed before the Commission,

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Appendix I to Item No. 6

Location	Dates	Name of Director	British Council/ British Staff	C.I.E. and Indian Staff
Delhi	1 May - 10 June	Dr. G. N. Sharma	1. Dr. D. P. L. Dry 2. Mr. D. R. Bradley	1. Mr. J. Sethi 2. Miss S. K. Ram 3. Mr. R. P. Bhatnagar
Hyderabad	29 April - 8 June	Dr. Rama Krishna Rao.	Mr. C. N. Coudlin (UK)	1. Mr. D. Y. Morgan 2. Dr. R. K. Bansal 3. Mrs. R. Thangavelu 4. Mr. T. Mirza
Poona	29 April - 8 June	Dr. S. K. Mukherjee	1. Mr. M. H. D. Vedden 2. Mr. G. C. Bagchi 3. Mr. R. J. Strover (UK)	1. Dr. R. N. Ghosh 2. Dr. S. K. Verma 3. Dr. Kelkar
Bombay	22 April - 31 May	Prof. G. C. Banerjee	Mr. A. E. Smith	1. Dr. M. N. Dobbyn 2. Mrs. S. Kundchedkar 3. Mr. J. P. Jain 4. Mrs. A. Kanga.
Ahmedabad	22 April - 31 May	1. Dr. Chandrashekharan, 2. Mr. S. R. Bhatt (Jt. Directors)		1. Dr. H. N. L. Sastri 2. Mr. Subash Jain 3. Mr. H. C. Trivedi 4. Dr. D. Maholkar 5. Mr. V. Y. Trivedi
Madras	30 May - 30 July	Mr. B. R. Krishnamoorthy	1. Mr. B. J. Carroll. 2. Mr. N. S. Prabhu.	1. Mr. A. E. Swaminathan 2. Mr. K. Chappallan 3. Mr. D. Thomas 4. Miss I. Adiappa 5. Mrs. F. B. Francis 6. Mr. J. Rabindra Das 7. Mr. F. Perreira
Bangalore	20 May - 20 July	Mr. W. W. S. Bhaskar	1. Mr. D. N. Nuttall 2. Prof. I. Lewis	1. Mr. K. S. Yadurajan 2. Dr. M. Ahmed 3. Dr. R. A. Kashyap 4. Mrs. B. S. Vedavathi 5. Miss M. L. Sharda.
Madurai	30 May - 30 July	Mr. J. Hobbs	1. Mr. J. Hobbs (UK) 2. Mr. R. Swaminathan	1. Mr. K. C. Nambiar 2. I/ELT Expert 3. 4 Supervisors
<u>Non-Programme Institutes</u>				
Meerut	July/August	Dr. D. K. Chopra	1. Prof. C. S. Bhandari 2. Mr. R. L. S. Tong.	To be decided later
Nagpur	October/November	Dr. P. S. Sastri	1. Mr. R. E. Underwood.	-do-

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(6)

UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

- Item No.7. To consider the following recommendations of the A.I.C.T.E.
- (a) Fourth Plan proposals of the Banaras Hindu University relating to engineering and technological education.
 - (b) Introduction of Post-graduate courses in Business Management at Banaras Hindu University.
 - (c) Provision of students' amenities at Jadavpur University.
 - (d) Additional grant for the purchase of equipment for post-graduate courses in engineering at Jadavpur University.

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(7)

University Grants Commission

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Meeting:

Dated : 8th March, 1968

Item No. 7(a) : To consider the recommendations of the AICTE on the Fourth Plan proposals of the Banaras Hindu University relating to Engineering and Technological Education.

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The Banaras Hindu University, Varanasi, submitted a proposal to the Government of India, through the University Grants Commission, for consolidation and development of facilities for the undergraduate and postgraduate courses and research schemes conducted at the College of Engineering, College of Technology, College of Mining & Metallurgy and College of Music & Fine Arts, under the Fourth Five Year Plan. The Ministry of Education appointed a Visiting Committee to assess the additional requirements for the reorganisation of various courses at the above mentioned colleges. The report of the Visiting Committee is attached as Annexure I.

The Visiting Committee visited Banaras Hindu University on 4th, 5th and 6th September 1967. The recommendations of the Visiting Committee are summarized below:

- (i) A total grant of Rs.1,60,69,770/- (say Rs.1,60,70,000/-) has been approved by the University Grants Commission for the Colleges of Engineering, Mining & Metallurgy and Technology since 1955, out of which a grant of Rs.88,00,000 has been released upto 21st August 1967. Further grants, admissible on this account (Rs.72,00,000) may be released by the UGC on the basis of expenditure actually incurred on approved items by the University.
- (ii) Each of the three Colleges (e.g. College of Engineering, College of Mining & Metallurgy and College of Technology) should be treated as an independent unit for most purposes with a certain amount of coordination and sharing of common facilities.
- (iii) It is not enough to have the requisite number of staff; appropriate distribution of staff (e.g., Professors/Associate Professors, Assistant Professors/Readers and Lecturers) at 1:4:5 and 1:2:1 ratios for undergraduate and postgraduate courses respectively is equally necessary.
- (iv) Positions of research and technical assistance should be available to the extent of at least 15% of the cost of teaching staff. In addition, there should be a supporting staff to the extent of 35% of the cost of teaching staff.
- (v) The annual maintenance expenditure per student should be Rs.300 for the first four years, Rs.600 for the fifth year of the undergraduate course, Rs.1,000 for the postgraduate and Rs.1,500 for research.
- (vi) Rearrangement of existing space by suitable alterations and modifications supplemented by construction of new buildings, as and when necessary, with amenities for students and staff, will bring about an all-round improvement in the physical environment.
- (vii) Additional equipment required for all the three institutions should be linked with faculty development and the training programme with provision for foreign exchange upto 25% of the equipment grant.

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(viii) Necessary funds should be found to provide scholarships for 25% of the undergraduate and 100% of the postgraduate students.

(ix) The University being residential, provision has to be made for hostels as well as staff quarters for all members of staff and students on a priority basis. Housing is an important element in attracting quality faculty.

(x) The University should have a suitable computer centre satisfying the needs of all the colleges.

(xi) The departmental and college library facilities have to be coordinated with the Central Library. Duplication of expensive journals should be avoided. It may be useful to establish some machinery for the exchange of books and journals amongst the department, college and the central library.

(xii) Recommendations for additional non-recurring and recurring grants.

...

NON-RECURRING

	<u>Buildings</u> Rs.	<u>Equipment</u> Rs.	<u>Furniture</u> Rs.	<u>Library</u> Rs.	<u>Total</u> Rs.
A. College of Engg.	15,00,000	40,00,000	3,00,000	2,00,000	60,00,000
B. College of Mining & Metallurgy	6,25,000	21,00,000	65,000	80,000	28,70,000
C. College of Technology.	12,50,000	26,00,000	1,25,000	90,000	40,65,000
D. College of Music and Fine Arts.	10,03,200	2,50,000	30,000	1,00,000	13,83,200
Total:	43,78,200	89,50,000	5,20,000	4,70,000	1,43,18,200

RECURRING

	<u>Salary of Staff</u>	<u>Maintenance expenditure</u>	<u>Library (Recurring)</u>	<u>Total</u>
A. College of Engg.	44,68,500	7,50,000	50,000	52,68,500
B. College of Mining and Metallurgy.	15,37,000	2,54,000	30,000	18,21,000
C. College of Technology	13,13,550	2,53,000	30,000	15,96,550
D. College of Music and Fine Arts.	2,35,090	30,000	15,000	2,80,090
Total:	75,54,140	12,87,000	1,25,000	89,66,140

(xiii) Review of Progress

With a view to reviewing the progress of implementation of the recommendations, the Vice-Chancellor may set up a suitable machinery, e.g., Standing Committee of the Principals and Heads of the Departments concerned.

The recommendations of the Committee are placed before the Commission for consideration.

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Annexure I to
Item No. 7(a)

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Report of the Visiting Committee on the Consolidation and Reorganisation of Under-graduate and Post-graduate courses and Research Schemes conducted at the College of Engineering, College of Technology, College of Mining and Metallurgy and College of Music and Fine Arts of the Banaras Hindu University, Varanasi under the Fourth Five Year Plan.

I. INTRODUCTION.

The Registrar, Banaras Hindu University, Varanasi, submitted a proposal to the Government of India through the University Grants Commission for the consolidation and development of the facilities for the undergraduate and Post-graduate courses and Research schemes conducted at the College of Engineering, College of Technology, College of Mining & Metallurgy and College of Music & Fine Arts, under the Fourth Five Year Plan. The Ministry of Education, New Delhi, appointed a Visiting Committee, consisting of the following experts to assess the additional requirements for the reorganisation of various courses at the above-mentioned Colleges on proper lines:-

1. Dr. R.K. Kelkar, Chairman
Director,
Indian Institute of Technology,
Kanpur.
2. Dr. G.S. Laddha, Member
Director,
A.G. College of Technology,
Guindy,
Madras.
3. Prof. V. Lakshminarayanan, "
Director,
Birla Institute of Technology
and Science,
Pilani.
4. Dr. P.K. Roy, "
Principal,
Bengal Engineering College,
Howrah.
5. Dr. Brahm Prakash, "
Director,
Metallurgy Group,
Bhabha Atomic Research Centre,
Appolo Pior,
Bombay.
6. Shri B.C. Sanyal, "
Secretary,
Lalit Kala Akademi,
New Delhi.
7. Shri G.N. Vaswani, Secretary
Deputy Educational Adviser
(Tech.),
Ministry of Education,
New Delhi.

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8. Shri S. Sadasivam, Secretary
 Asstt. Educational Adviser
 (Tech.),
 Ministry of Education,
 Northern Regional Office,
 Kanpur.

II. Brief History

The proposal for the establishment of the Banaras Hindu University was first meted and discussed in the Mint House, Banaras, under the Presidentship of Maharaja Prabhu Narain Singh of Banaras in the year 1904--1905. Mrs. Annie Besant and Mahamana Malaviyaji decided to unite the forces for the establishment of Banaras Hindu University. The Foundation stone of Banaras Hindu University was laid by Lord Hardinge on the 4th February, 1916. The growth and development of the Engg. and Technological Colleges of the University is as under:-

1. College of Engineering.

The College of Engineering was founded in the year 1919. In the begining there were both degree and diploma students with an annual intake of 30 students to degree and 10 to the diploma courses. The College had 4-year degree and 4-year diploma courses. in Mechanical and Electrical Engineering. The diploma course was discontinued from 1932.

From 1919 to 1926 the College was conducting separate courses in Electrical and Mechanical Engineering. From the year 1926-27 to 1943-49, the students were admitted to combined degree course in Electrical and Mechanical Engineering. In the meanwhile syllabi were completely re-organised and from the session 1949-50, new admissions were made to separate courses in Civil, Mechanical and Electrical Engineering. The sanctioned intake was also raised to 160 (40 Civil, 60 each in Mechanical and Electrical Engineering). The sanctioned intake was subsequently raised to 270 (90 each in Civil, Mechanical and Electrical Engineering) in the year 1957. The intake for the undergraduate courses was further raised to 350 (Civil 100 and 125 each in Mechanical and Electrical Engineering) in 1963 on account of National Emergency. The College switched over to 5-year integrated course from the year 1960 replacing the old 4-year degree course.

The Post-graduate courses in Civil, Mechanical and Electrical Engineering were introduced from the year 1964-65.

The University Grants Commission, on the Recommendations made by the Northern Regional Committee/AI-India Council for Technical Education from time to time have approved the following grants for the College of Engineering in addition to the facilities available prior to 1965:-

	<u>Buildings</u>	<u>Equipment</u>	<u>Furniture</u>	<u>Library</u>
	Rs.	Rs.	Rs.	Rs.
Under gra- duate Courses.)	29,95,200	33,24,700	2,00,000	1,10,000
Post-gra- duate Courses.)	96,000	4,74,500	-	-
	<u>30,91,200</u>	<u>37,99,200</u>	<u>2,00,000</u>	<u>1,10,000</u>

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2. College of Mining & Metallurgy:

The College of Mining & Metallurgy owes its growth to the establishment of the departments of Mining and Metallurgy and Geology in 1923 within the College of Engineering. Soon the department of Geology was separated and was transferred to the Sciences Department of Central Hindu College of the University. The combined department of Mining and Metallurgy continued to function till 1944 when it was raised to a full-fledged College having two separate departments of Mining and Metallurgy. The College conducted undergraduate courses in Mining and Metallurgy and Fuel Technology with an intake of 16, 32 and 10 respectively of 4-year duration after Intermediate in Science. The degree course in Fuel Technology was started in 1948 and was subsequently abolished.

In 1957-58, the intake for Mining and Metallurgy courses was raised to 40 each. The intake for the Metallurgy department was subsequently recommended to be raised to 60 by the 1958 Visiting Committee. The 1958 Visiting Committee also recommended the setting up of a common unit for the teaching of Science, Mathematics, Drawing and General Engineering subjects etc. to be organised by the College of Technology, for the students of the Colleges of Technology, Mining and Metallurgy & Agriculture. The College adopted 5-year integrated degree course instead of 4-year one from the session 1960. The Post-graduate courses in Metallurgy were introduced in the year-1957.

The University Grants Commission, on the recommendations made by the Northern Regional Committee/All-India Council for Technical Education from time to time have approved the following grants for the College of Mining and Metallurgy in addition to the facilities available prior to 1955:-

	<u>Buildings</u>	<u>Equipment</u>	<u>Furniture</u>	<u>Library</u>
	Rs.	Rs.	Rs.	Rs.
Undergraduate Courses	10,61,850	17,68,250	25,000	95,000
Postgraduate courses	2,05,800	5,65,000	6,000	-
Research Schemes	-	34,500	-	-
	<u>12,67,650</u>	<u>23,67,750</u>	<u>31,000</u>	<u>95,000</u>

3. College of Technology.

The College of Technology owes its growth to the establishment of department of Industrial Chemistry in 1921 offering 2-year degree and Post-graduate courses, to which was added Ceramics Technology Section in 1924. The department of Pharmacy was established the year 1932 offering 3-year degree course in Pharmacy. In 1936 department of Glass Technology was also added and thus the College of Technology, comprising departments of Industrial Chemistry, Pharmacy, Glass and Ceramics Technology came into existence.

In 1948 the Government of India, on the recommendations of the All-India Council for Technical Education approved the development plans for the department of Industrial Chemistry and Pharmacy and sanctioned some grants. The Co-ordinating Committee of the All-India Council for Technical Education, while recommending the above grants observed that the present 2-year degree course in Industrial Chemistry has outlived its purpose and required to be changed to suit modern conditions and accordingly recommended the grants for the

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institution of degree course in Chemical Engineering and Technology. The Committee, however, had no objection to the B.H.U. continuing 2-year degree course in Industrial Chemistry. But the grants recommended were to be utilised only for setting up the course in Chemical Engineering and Technology. An entirely new department of Chemical Engineering and Technology was established in 1948 offering 4-year degree course in Chemical Engineering with an intake of 30 students.

The 1955 Visiting Committee, while recommending additional grants for the development of the Department of Chemical Engg. and Technology made specific recommendations that the two year degree course in Industrial Chemistry should be discontinued and the facilities available for the department of Industrial Chemistry should be made use of by the department of Chemical Engineering and Technology.

On the recommendations of the Visiting Committee of the AICTE, the two departments of Glass and Ceramics Technology were amalgamated into the department of Silicate Technology, offering four year degree course with an intake of 30. In 1958, the recommendations of 1955 Visiting Committee were reviewed by the same Committee and assessed the over-all requirements for the department of Chemical Engineering and Silicate Technology. This Visiting Committee also recommended the setting up of a common unit for the teaching of Science, Mathematics, Drawing & General Engineering subjects etc. to be organised by the College of Technology for the students of Colleges of Technology, Mining and Metallurgy and Agriculture.

The College switched over to 5-year integrated course instead of 4-year one in Chemical Engineering and Silicate Technology from the year 1960 and also to 4-year degree course in Pharmacy instead of 3-year one from the year 1964..

in 1963 another Visiting Committee visited the Colleges to assess the requirement on the expansion and consolidation of the department of Chemical Engineering and Silicate Technology and observed that the courses in Silicate Technology are more Chemical Engineering based and recommended that the College should immediately switch over to 3-year degree course in Silicate Technology after B.Sc. in Science.

The Post-graduate courses in the Department of Pharmacy were started as early as 1941 and in the department of Chemical Engineering they were started from the session 1965.

The University Grants Commission, on the recommendations made by the Northern Regional Committee/All-India Council for Technical Education from time to time have approved the following grants for the College of Technology in Addition to the facilities available prior to 1955:-

	<u>Buildings</u>	<u>Equipment</u>	<u>Furniture</u>	<u>Library</u>
	Rs.	Rs.	Rs.	Rs.
Undergraduate Courses	22,18,400	23,45,500	1,14,800	1,00,000
Miscellaneous	55,200			
Postgraduate Courses	1,24,070	1,50,000	-	-
	<u>23,97,670</u>	<u>24,95,500</u>	<u>1,14,800</u>	<u>1,00,000</u>

Note Statements of grants approved/released from time to time by the University Grants Commission are given in annexure I.

4. College of Music & Fine Arts.

The College of Music and Fine Arts was founded in the year 1960 with the object of promoting Classical Indian Music and at the same time making use of the modern techniques to further and popularise Indian Music and Arts. In the Department of Fine Arts, instruction in Painting, Sculpture, were started to begin with. In 1963, two separate courses of 3-year duration leading to diploma and followed by degree were instituted in Painting, Sculpture and Applied Art. In 1964, the University authorities submitted proposal for the development of the Fine Arts Section of the College of Music and Fine Art. The University Grants Commission on the recommendations of the Northern Regional Committee/AICTE approved the following grants for the development of the Fine Art Section:-

(a) Buildings	.....	.....	Rs. 6,14,500
(b) Equipment	.....	.....	Rs. 1,33,700
(c) Furniture	.....	.....	Rs. 20,000
(d) Library.	.....	.....	Rs. 10,000
			<u>Rs. 7,78,200</u>

III. Courses of Study, their duration and Sanctioned Intake.

The information regarding the courses offered, their duration, sanctioned intake etc. in respect of

- (a) The College of Engineering.
- (b) The College of Technology.
- (c) The College of Mining and Metallurgy &
- (d) The College of Music and Fine Arts.

is given in Annexure II. The recommendations and the financial estimates have been made on the basis of the courses and intake given in this annexure. This annexure also gives the teaching staff recommended in this report against each institute.

IV. Visit by the Visiting Committee.

The Visiting Committee visited the College of Engineering, College of Technology, College of Mining and Metallurgy and College of Music and Fine Arts on the 4th, 5th and 6th September, 1967. All the members except Dr. F.K. Roy, Principal, Bengal Engineering College, Shibpore, were present. Dr. M.L. Mehta, Education Officer, University Grants Commission, New Delhi, was also present during the visit to these institutions.

Dr. A.C. Joshi, Vice-Chancellor, Banaras Hindu University, welcomed the members of the Visiting Committee and apprised the Committee about the problems of the various Colleges. The Visiting Committee was then taken round the various Colleges by the Principals of the Colleges concerned. The Committee hold a series of discussions with the principals and Heads of Departments of the respective Colleges.

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V. Scope of the Committee.

From the brief history of the grants approved by the University Grants Commission since 1955 for the Colleges of Engineering, Mining & Metallurgy and Technology, it will be observed that a total grant of Rs.1,60,69,770/- say Rs. Rs.1,60,70,000/- (including a grant of Rs.5,70,500/- for the College of Engg. Post-graduate courses, which has not been released and is to be reviewed afresh) have been approved by the University Grants Commission, New Delhi, for post-graduate and under-graduate courses. As per the information supplied by the University Grants Commission (given in annexure I), against a total sanction of Rs.1,60,70,000/- the Commission has so far released a grant of Rs.88,00,000/- (as per the position on Commission's records on 21.8.1967) i.e. to say a sum of Rs.72,70,000/- is yet to be made available to the University authorities by the University Grants Commission. It is suggested that the University Grants Commission while releasing the grants, recommended by this Visiting Committee, should take into account the amount of about Rs.72,00,000/- which is still to be released by them against the approved estimates after taking into consideration the actual expenditure incurred by the University from the grant of about Rs.88,00,000/- released by the Commission as on 21.8.1967.

As regards the reorganisation of Applied Art Courses, no building grants have so far been released by the Commission. The University Grants Commission has lately released an equipment grant of Rs.1,47,700/- (including Rs.10,000/- for furniture and Rs.4,000/- for library), which have been more or less utilised by the Department.

VI. General consideration:

It is necessary to realise at the outset that the three colleges-College of Engineering, College of Mining and Metallurgy and College of Technology - together represent a very complex situation. There is a long history behind these and they have grown with independent traditions and differing back-grounds. There has been marginal co-ordination between the three during the past and the present tendency is to become completely Independent of each other. The pattern of growth has been such that as soon as an individual got identified as having an idea and the necessary drive he was given an opportunity to proceed further. In the process an activity became a laboratory, a laboratory became a department and occasionally a department became an institution. There has been a strong tendency towards isolation and independent growth. The advantages of this system have been firstly, that many pioneering ideas were given scope for being tried out and secondly, quick growth became possible depending on the stature and drive of a particular individual. The main drawback of this way of doing things is that there is no continuity of growth and the institution does not become impersonal and strong enough to become independent of a particular individual. There is a lack of co-operative spirit and team work becomes almost impossible. There is opposition to the sharing of common facilities and duplication becomes inevitable. Even the grouping of areas does not have a rational base but tends to be a subjective ad-hoc decision.

It will be obvious from what has been stated above that there are certain inherent limitations which cannot be easily

overcome. The nature and pattern of growth, therefore, for each college has to be related to its present status and character. The Committee was convinced that no useful purpose would be served in trying to superimpose a structure which would artificially bring the colleges together and force them to operate as one unit. The recommendations, therefore, have to be consistent with what each college is at present, what it can be in the near future and what its ultimate objectives are.

The elements which will decide the nature and rate of growth are the size and composition of the faculty, availability of equipment, buildings and the number and quality of the students. The supporting staff also plays an important role in this context. It has not been possible for the Visiting Committee to obtain sufficient data to be able to assess the rate of growth and ability to consolidate in relation to the various elements indicated above. To that extent the recommendations have to be treated as tentative and should be reviewed after three years or so.

The Committee feels that each college should be treated as an independent unit for most purposes. There may be a sharing of hostel facilities as between the three colleges. There may be a certain amount of co-ordination and possibility of sharing of positions in relation to the science and general engineering requirements of each college although these facilities may be independently organised in each college. The number and composition of the staff for each college would allow for this independent organisation. Care has to be taken that Physics, Chemistry and Mathematics Sections do not become too weak to function effectively.

The Visiting Committee considered in great detail the faculty needs of each college. It is not enough to have the requisite numbers. It is equally necessary to have an appropriate distribution between the various categories of positions. Accepting the present salary structure and three basic positions viz. Professor, Assistant Professor/Reader and Lecturer, an attempt has been made to evolve a mix which will give genuine strength to each institution to grow in the right direction at a reasonable pace. For the purposes of calculation, teacher-student ration of 1:10 has been used for undergraduate and 1:5 for post-graduate requirements. The composition for undergraduate have been assumed to be 1:4:5 as between Professors, Assistant Professors/Readers and Lecturers. The corresponding ratio for post-graduate has been taken as 1:2:1. In making a suitable offer to a prospective candidate the two parameters are the designation and salary. There must be flexibility in both. It would, therefore, be useful to have four types of positions instead of the present three. These would be Professor-Associate Professor; Assistant Professor/Reader and Lecturer. The salary scales should be those sanctioned by the University Grants Commission. The scale of the Associate Professor will have to be decided. It should be between that of the Professor and Assistant Professor/Reader. The quota for Professors post should include post of Associate Professors as well. Further, it should be possible for each College to have one third of the Professor's posts in the senior scale depending on the qualifications, ability, seniority etc. of persons concerned.

Needs of the supporting staff were also considered in

some detail. Positions of research and technical assistants should be available to the extent of at least 15% of the cost of teaching staff. In addition, the supporting staff should be there to the extent of 35% of the cost of teaching staff.

The annual maintenance expenditure per student is an important element in the over-all effectiveness of the training programme, It is believed that for the under-graduate students it should be at least Rs.300/- per student for the first four years and Rs.600/- per student for the fifth year. It should be Rs.1000/- per student for the post-graduate students while for research students it has to be of the order of Rs.1,500/- per student.

So far as the buildings are concerned the new construction has to be supplementary. In addition, a great deal of improvement can be brought about by rearranging the existing space by suitable alterations and modifications. There is need for amenities for students and also staff rooms. Existing furniture is inadequate and there is need for substantial addition. In general what is required is an all round change in the physical environment so as to give it a modern and congenial look to the extent that is possible.

There is no doubt that additional equipment is required for all the three institutions. But the nature and quantum of equipment to be acquired has to be carefully planned. In this respect also modern approach is indicated. This should be linked with faculty development and the training programme. A certain amount of foreign exchange is considered essential in this context. It seems appropriate to make upto 25% of the equipment grant available in foreign exchange.

Scholarships are an important element in attracting good students. For the undergraduate courses 25% of the students should be eligible for a scholarship. It is envisaged that at any given time there would be 60 merit scholars in the three Colleges together; No special provision for educational tours by the students has been made in the estimates. Necessary funds should be made available for this purpose.

The University Campus is residential. It is, therefore, to be expected that both the students and the teaching staff should reside on the campus. Provision has, therefore, to be made for hostels as well as staff quarters. This is an item which should be given priority which it does not seem to enjoy at present. Housing is an important element in attracting quality faculty.

There is no doubt that the University should have a suitable computer centre satisfying the needs of all the colleges. The decision regarding this has to be taken at the national level. An early beginning should be made in this respect. Apart from the digital computer which would constitute a central facility there is need for analogue computers for the three colleges. It is recommended that the three colleges together should have a common plan for acquiring the analogue computers.

The departmental and the college library serve a useful purpose, This facility has, however, to be co-ordinated with the Central Library. Duplication of expensive journals should

be avoided. It may be useful to establish some machinery for the exchange of books and journals between the departmental and the college libraries as also between these and the central library.

VII. Recommendations.

For assessing the additional requirements, the Committee has taken into account the facilities as existing in the different Colleges on the 6th September, 1967. Accordingly while working out the release of grants to the various Colleges, the University Grants Commission has to keep this fact in view.

The Committee recommends the following additional facilities for undergraduate and postgraduate courses and Research schemes:-

A. College of Engineering.

The Committee was received by Principal M. Sengupta and was taken round the various laboratories. In order to have a full view of the problems, the Committee held discussions with Principal, Sengupta, Prof. S.S. Gairola, Head of the Civil Engg. Department, Dr. V.V. Chalam, Head of Electrical Engineering Department, Dr. A Singh, Head of Mechanical Engineering Department and other senior members of staff.

The College of Engineering has great traditions and many of the past students are occupying very senior positions not only in the eastern and northern region but throughout the country. It has rendered pioneering service to the country. During the last fifteen years or so it has not been possible for the college to bring about the necessary changes rapidly enough for it to contribute in the modern sense as effectively as it did in the past. Discussion with the Principal and Heads of Departments and the senior staff made it obvious that there is desire to bring about drastic changes quickly. The key to this programme is significant addition to the faculty at the senior level. Post-graduate activity has been in existence for only a few years and unless a strong base is built up in the respective disciplines proliferation of courses with narrow electives would not lead to the desired objectives. There is need for complete overhaul of the laboratories. Particularly for electronics there is inadequate provision. It is, therefore, recommended that instead of starting new courses in the general sense requisite strength should be built up through consolidation. After this has been achieved appropriate new proposals should be made. Additional grants should be used for the complete overhaul of existing courses, consolidation and preparation for the new courses to be initiated at the appropriate stage.

As regards the proposal of the University for the introduction of architecture course at the undergraduate level, the Committee feels that in the Northern Region facilities for Architecture are already available at the Roorkee University, Roorkee, Chandigarh College of Architecture, Chandigarh and School of Planning and Architecture, New Delhi. As such, the proposal be deferred for the time being. With regard to the proposal for Electronics, the Committee feels this should come after consolidation and the creation of proper facilities. As a first step, electronics may be given as an option or an elective in the final years.

b While considering the question of additional facilities for the Engineering College, the Committee noted that no facilities by way of buildings, equipment, furniture, library etc. have been made available to the College for Post-graduate courses. The Committee recommended that immediate steps may be taken to strengthen the facilities both at the undergraduate and post-graduate level and research.

The Committee accordingly recommended the following additional facilities.

NON-RECURRING

BUILDINGS - The Committee observed that the workshops and laboratories of the College are overcrowded and some additional space is required to ease the congestion. A floor area of 2,75,470 sq. ft. (plinth area 3,14,701) is available at the College of Engineering. The Committee accordingly recommended an additional plinth area of 30,000 sq. ft. at an estimated cost of Rs.10,00,000/- (@ Rs. 20/- per sq.ft. 20 x 50,000).

The Committee also recommended an additional grant of Rs. 5,00,000/- for modification, alterations, additions and also for replacement of wiring and other service items in the existing buildings and creating minimum amenities for students and staff.

Total building grant recommended Rs.15,00,000/-

EQUIPMENT

Equipment worth Rs.34,13,240/- is already available with the Engineering College. The Committee recommended an additional equipment grant of Rs. 30,00,000/- (both for undergraduate as well as post-graduate courses). In addition Rs.10 lacs may be made available in foreign exchange as and when possible.

Total equipment grant recommended Rs.40,00,000/-

FURNITURE

Furniture worth Rs.1,68,700/- (Approx.) is available with the College which is inadequate for the existing requirements of the College. The Committee accordingly recommends an additional grant of Rs.3,00,000/- for the purpose.

LIBRARY

The College library and the departmental libraries are not well furnished and need a lot to be added. The Committee recommends a lump sum grant of Rs.2,00,000/- to create proper facilities. A part of this amount may also be used for strengthen in the Central Library in co-operation with the other two colleges. Copies of important text books may be made available to the students for borrowing and reading in the library.

RECURRING

STAFF

As per the recommendations made under general

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considerations, the Committee assessed the following over-all staff structure for the undergraduate and post-graduate courses being conducted at the colleges of Engineering. It must be emphasised that there should be equal importance given to Mathematics and Science subjects as is given to engineering subjects. The Committee was surprised, for example, to note that there was no Professorship in Mathematics. This situation should be rectified as soon as possible.

Designation.	No. of Posts		Scale of pay	Approximate average annual expenditure	
	Undergraduate.	Postgraduate.			
Principal			1	Rs. 18,600	
Professors	17	6	23	3,45,000	
Asstt. Professors/			As sanctioned by the University Grants Commission.		
Readers.	70	12		82	8,61,000
Lecturers.	88	6		94	7,61,400
Add 50% for D.A., H.R.A., G.C.A. etc.				As	
				As sanctioned by the University Grants Commission.	
				19,86,000	
				9,93,000	
				29,79,000	
Add 50% for salary of non-teaching staff (35% on salary of clerical staff, Laboratory Attendants. Workshop Attendants etc. and 15% for the salary of Senior and Junior Technical Assistants).				14,89,500	
Total salary of teaching and non-teaching staff				44,68,500	

MAINTENANCE EXPENDITURE

- (i) For undergraduate courses @ Rs.300/- per student per annum for first four years and Rs.600/- per student per annum for Vth year (300 x 1400 + 600 x 350) 6,30,000
 - (ii) For Post-graduate courses @ Rs.1000/- per student per annum (120 x 1000) 1,20,000
- 7,50,000

LIBRARY RECURRING

Provision may be made for Library Recurring expenditure for books, journals etc. etc. at an estimated cost of Rs.50,000/- per annum.

B. College of Mining & Metallurgy.

The Committee was received by Dr. S.S. Saluja, Offg. Principal and Dr. T.R. Anantharaman, Professor and Head of the Department of Metallurgy. The Committee had discussions with Dr. Saluja; Dr. Anantharaman and other senior staff members of the College. The Committee was apprised of the difficulties faced by the College in availing of the facilities recommended by the 1957 Visiting Committee for setting up of a common unit for teaching of Science, Mathematics, Drawing and other Engineering subjects for the students of the College of Technology and College of Mining and Metallurgy to be created under the control of the College of Technology. The present situation is such, however that the college with certain additions to the existing facilities

by way of staff and space can achieve self-sufficiency. The pattern of growth in this college is such that science subjects are integrated with Metallurgy in particular. The needs of mining are also reasonably satisfied.

Due to unemployment of Mining Engineers, the present sanctioned intake of 40 for undergraduate course in Mining has been reduced to 25 from the session 1967-68 and is not likely to be raised to its original strength of 40 in the near future. The estimates for Mining undergraduate course are given on the basis of annual intake of 40 (i.e. total student population of 200). For post-graduate courses in Mining the College has submitted proposals for starting courses in Coal Mining and Metal Mining. For historical reasons Mining has not developed to the same extent as Metallurgy. Laboratories have been established without the necessary supporting staff. There is need for special sanction in this connection.

The Department of Metallurgy has developed substantial research programmes and post-graduate activity. The needs of the college, therefore, are somewhat different. There is a proposal to increase the undergraduate intake from 60 to 75. The college proposes to have 50 and 25 students respectively in the fourth and fifth year separately for production Metallurgy and Material Technology streams. It is recommended that there should be no increase in intake at the undergraduate level for some years. Material Technology stream may be tried as an experiment with fifteen students out of the sixty. The post-graduate admission may be increased to 25 from the present 16 but instead of offering new specialised courses appropriate electives may be offered keeping the number of courses at the present level. With regard to the proposal of the college for setting up of a Research School the Committee feels that this should be considered after some time.

Keeping in view the existing facilities available in the College, the Committee recommends the following additional facilities.

NON-RECURRING

BUILDINGS

A floor area of 74,808 sq.ft. (Plinth area 95,810 sq. ft.) is available at the College of Mining and Metallurgy. The Committee observed that for post-graduate courses hardly sufficient building space is available and a few of the laboratories for undergraduate courses are also overcrowded. The Committee accordingly recommends an additional building space of 25,000 sq.ft. plinth area (10,000 sq.ft. for Mining and 15,000 sq.ft. for Metallurgy) at an estimated cost of Rs.5,00,000/- (@ Rs.20/- per sq. ft. - 20 x 25,000)

The Committee also recommends an additional grant of Rs. 1,25,000/- (Rs.50,000/- for Mining and Rs.75,000/- for Metallurgy) for additions and alterations, replacements of wiring and other services items in the existing facilities including minimum amenities for students and staff.

Total Building grant recommended Rs.6,25,000/-

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EQUIPMENT

Equipment worth Rs.19,22,500/- (Rs.12,97,000/- for Metallurgy + Rs.6,25,500/- for Mining - including Rs.2,46,000/- for Mine Ventilation Gallery) is already available with the College. The Committee recommends an additional equipment grant of Rs. 16,00,000/- (Rs.6,00,000/- for Mining and Rs.10,00,000/- for Metallurgy). In addition, Rs. 5 lacs may be made available in foreign exchange as and when possible.

Total equipment grant recommended Rs.21,00,000/-

FURNITURE.

Furniture worth Rs.55,000/- (Rs.30,000/- for Mining and Rs.25,000/- for Metallurgy) is available. The Committee feels that sufficient funds for furniture have not been recommended so far. The Committee accordingly recommends an additional grant of Rs.65,000/- (Rs.25,000/- for Mining + Rs.40,000/- for Metallurgy).

LIBRARY.

The present College library is inadequate and needs considerable expansion to cope up with the demands of the rapidly growing requirements of Metallurgy and Mining courses and particularly with its special stress on post-graduate and research activities. The Committee recommends an additional library grant of Rs.80,000/- (Rs.20,000/- for Mining and Rs.60,000/- for Metallurgy).

RECURRINGSTAFF

Keeping in view the general considerations for the staff structure, the Committee recommends the following over-all staff etc. for the College of Mining and Metallurgy:-

	Department of Mining			Department of Metallurgy			Grand Total
	Undergraduate	Postgraduate	Total	Undergraduate	Postgraduate	Total	
Professor	2	1	3	3	3	6	9
Asstt. Professors/Readers	8	2	10	12	5	17	27
Lecturers	10	2	12	15	2	17	29

The average annual expenditure for the purpose of ceiling will come to as under:-

Designation	No. of posts	Scale of pay	Approximate average annual expenditure
Principal	1	As sanctioned by the University	18,600
Professors	9	Grants Commission	1,35,000
Asstt. Professors/Readers	27		2,83,500
Lecturers	29		2,34,900
		Total...	6,72,000
		Add 50% for D.A., H.R.A., G.C.A. etc.....	3,36,000
			10,08,000

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Add 50% for salary of non-teaching staff (35% on the salary of clerical staff, Lab. Attendants, Workshop Attendants etc. and 15% for the salary of senior and junior Technical Assistants).	5,04,000
Special provision for strengthening the subordinate staff for the deptt. of Mining	<u>25,000</u>
Total for salary of teaching and non-teach- ing staff.	<u>15,37,000</u>

MAINTENANCE EXPENDITURE

1. For undergraduate courses @ Rs.3,00/- per student per annum for first four years and Rs.600/- per student per annum for fifth year (300 x 400 + 600x100)	Rs.1,80,000
ii. For post-graduate courses @ Rs.1000/- per student per annum (1000 x 74)	Rs. 74,000
	<u>Rs.2,54,000</u>

LIBRARY RECURRING

Provision may also be made for Library recurring at an estimated cost of Rs.30,000/- (Rs.10,000/- for Mining and Rs.20,000/- for Metallurgy) per annum.

C. College of Technology.

The Committee was received by Dr.Gopal Tripathi, Principal, College of Technology and was taken round the various departments. Later, the Committee had discussions with Dr. Gopal Tripathi, Dr. S.P. Pathak, Dr. K.S. Vishwanathan, Dr. S. Prasad and senior staff members of the College. The College has submitted its proposals for the consolidation and development of the undergraduate and post-graduate courses in the Departments of Chemical Engineering, Silicate Technology and Pharmacy. The proposals also include the requirements for introduction of post-graduate courses in different departments for new electives.

The departments of Chemical Engineering has submitted proposal for the consolidation of undergraduate courses. The department introduced courses in Petroleum Refining Engineering, Instrumentation and Automatic Process Control, Plant and Equipment Design, Kinetics and Catalysis and Reactor Design at the Undergraduate level. For want of adequate laboratory facilities, the courses could give only theoretical and bookish knowledge. The department has accordingly stressed for the establishment of laboratories for the above-mentioned subjects. The department is at present conducting post-graduate courses in Chemical Engineering for which no grants have been approved so far. The department has submitted the proposal for the introduction of post-graduate courses in Chemical Engineering, Instrumentation and Automatic Process Control and Petroleum Technology. The introduction of those post-graduate courses was included in the Third Plan, but the same could not be taken up for want of funds. These have now been included in the development programme of the post-graduate courses in the Fourth Five Year Plan. The department has also submitted proposals for the introduction of new post-graduate courses in High Polymer Engg., Nuclear Engineering and Industrial Engineering. These at present form the part of the post-graduate courses in Chemical Engineering as the field of specialisation.

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The Chemical Engineering department has also submitted proposals for the establishment of a "Chemical Engineering Practice School" for undergraduate and post-graduate courses. For establishing this type of school, the institute has got the support from the Fertilizer Corporation of India, Sindri, Indian Oil Corporation Ltd., New Delhi, Massachusetts Institute of Technology, Cambridge, Massachusetts. The Ministry of Education, New Delhi, vide their letter no.F.6-4/64-T.2, dated the 24th/26th December, 1964, have accordingly advised the institute to submit the proposal to the Ministry.

As regards Silicate Technology Department, the Committee noted with surprise that the department is still conducting 5-year degree course in Silicate Technology at the undergraduate level contradictory to the recommendations of the 1963 Visiting Committee that the institute should switch over to 3-year degree course with B.Sc. as the minimum educational qualification. The University Grants Commission has also accordingly accepted the estimates of expenditure worked out by the 1963 Committee. The Committee emphasised the 1963 Visiting Committee's recommendations and reiterated the same:-

"The present course followed by the Silicate Technology Department is heavily Chemical Engineering-based. During the final year the Department has hardly any opportunity of giving the boys proper orientation in the subject of Silicate Technology. This adversely affects the students who do not stand up to the demands of the industries. It has also resulted in constant migration of students from the Silicate Technology Course to the Chemical Engg. course. So much so, that in the session 1963-64 only two students are studying Silicate Technology course in the final year. The problem before the present Visiting Committee was to find out ways and means to stop this sort of drift and put the Silicate Technology Department on a firm footing".

The Committee accordingly while working out the additional requirements has assessed the estimates for the Post-BSc. 3-year Degree Course in Silicate Technology as recommended by the 1963 Visiting Committee and not for the existing 5-year integrated course.

The Department of Silicate Technology has submitted proposals for the consolidation of the undergraduate courses in Silicate Technology and also for the introduction of the post-graduate courses (M.Sc. Silicate Technology) of two years' duration and for the provision of research work, leading to Ph.D. degree in any field of Ceramic Technology. The Department of Pharmacy has submitted proposals for the consolidation and development of the present courses and also for increasing the sanctioned intake at the undergraduate level from 22 to 40 at the Post-graduate level from 10 to 20 and also for the three more electives at the post-graduate courses.

As already indicated the main emphasis during the course of next three years or so has to be on consolidation and reorganisation and up-grading of the existing training programme and facilities. In view of this it is recommended that no new independent courses should be offered. Modification in terms of greater electives etc. can be achieved within the existing framework. Faculty and course development are expected to progress simultaneously.

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While going round the various departments, the Committee observed that no proper facilities are available in the department of Silicate Technology. Laboratories are ill-equipped for want of funds. The Committee also noted that the recommendations of the 1963 Visiting Committee for the release of non-recurring grant of Rs.9,70,000/- (approx.) for buildings and equipment for the Silicate Technology Department, have not so far been made available to the College.

Facilities by way of class-rooms and tutorial rooms are hardly available in the department of Silicate Technology and also in the department of Pharmacy.

Taking into account the above position, the Committee recommends the following additional facilities for the above College:-

NON-RECURRING

BUILDINGS - A floor area of 1,22,130 sq.ft. (Plinth area 1,64,623 sq.ft. -approx.) is available with the College of Technology. This also includes a floor area of 28,000 sq.ft.(approx.) - Plinth area 39,330 sq. ft. built up for common unit for teaching of Science and Mathematics and General Engg. Subjects. The Committee recommends an additional plinth area of 50,000 sq.ft. (30,000 sq.ft. for Chemical Engineering Department and 10,000 sq.ft. each for Silicate Technology and Pharmacy Departments) at an estimated cost of Rs.10,00,000/- @ Rs.20/- per sq.ft.

The Committee also recommends an additional grant of Rs.2,50,000/- (Rs.1,50,000/- for Chemical Engineering Deptt. and Rs.50,000/- each for Silicate Technology and Pharmacy Deptts.) for additions and alterations, replacements of wiring and other services: items in the existing facilities including minimum amenities for students and staff.

Total estimated cost of buildings.....Rs.12,50,000/-

EQUIPMENT.

The Committee recommends an additional equipment grant of Rs.21,00,000/- (Rs.15,00,000/- for Chemical Engg. Department and Rs.3,00,000/- each for the departments of Silicate Technology and Pharmacy) for bringing up the facilities up to the desired standard. In addition, Rs. 5 lacs may be made available in foreign exchange as and when possible.

Total equipment grant recommended ...Rs.26,00,000/-

FURNITURE.

The Committee recommends an additional Furniture grant of Rs.1,25,000/- (Rs.75,00,000/- for Chemical Engineering Department and Rs.25,000/- each for the departments of Silicate Technology and Pharmacy) as the facilities already existing in the College are far from satisfactory.

LIBRARY.

The Committee also recommends an additional library grant of Rs.90,000/- (Rs.50,000/- for Chemical Engineering Department and Rs.20,000/- each for the Departments of the Silicate Technology and Pharmacy) for bringing up the College Library and the departmental libraries to an appropriate level.

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RECURRING

STAFF -

Keeping in view the general considerations for the staff-student ratio and also the staff structure, the Committee assessed the over-all requirements for the College of Technology as under:-

Designation	Chemical Engg.			Silicate Technology		Pharmacy			Grand Total.
	Under grad-uate	Post gra-uate	Total	Undegra-uate	Total	Under grad-uate	Post gra-uate	To ta l.	
Professors	3	1	4	1	1	1	1	2	7
Assistant Professors/Readers	12	2	14	3	3	4	2	6	25
Lecturers	15	1	16	5	5	5	1	6	27
	<u>30</u>	<u>4</u>	<u>34</u>	<u>9</u>	<u>9</u>	<u>10</u>	<u>4</u>	<u>14</u>	<u>57</u>

** Staff structure for Sillicate Technology Department has been worked out keeping in view that University will switch over to 3-year degree course for B.Sc.s.

The average annual expenditure for the purpose of ceiling will come to as under:-

Designation:	No. of posts	Scale of pay	Approximate average annual expenditure
Principal	1	As sanctioned by University Grants Commission.	Rs. 18,000
Professors	7		1,05,000
Asstt. Professors/Readers.	23		2,41,500
Lecturers	27		2,18,700
			<u>5,83,600</u>
Add 50% for D.A., H.R.A., C.C.A. etc.			2,91,900
			<u>8,75,700</u>
Add 50% for salary of non-teaching staff (35% on the salary of clerical staff, Lab.Attendants, Workshop Attendants etc. and 15% for the salary of Senior and Junior Technical Assistants)			<u>4,37,850</u>
			<u>13,13,550</u>

MAINTENANCE EXPENDITURE

A. Department of Chemical Engineering

- (i) For undergraduate courses @ Rs.300/- per student per annum for first four years and Rs.600/- per student per annum for the fifth year (300 x 240 + 600 x 60) 1,08,000
- (ii) For Post-graduate courses @ Rs.1000/- per student per annum(1000 x 20) 20,000
- 1,28,000

B. Department of Sillicate Technology.

- (1) For undergraduate courses @ Rs.800/- per student per annum(800 x 90) 72,000
- 72,000

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C. Department of Pharmacy.

(i) For undergraduate courses @ Rs.300/- per student per annum for first three years and Rs.600/- per student per annum for fourth year (300 x 66 + 600x22)	33,000
(ii) For post-graduate courses @ Rs.1000/- per student per annum (1000x20)	<u>20,000</u>
	53,000
Total maintenance expenditure per annum....	<u>2,53,000</u>

LIBRARY RECURRING

The Committee also recommends a provision of Rs.30,000/- (Rs.20,000/- for Chemical Engineering and Rs.5,000/- each for the Departments of Silicate Technology and Pharmacy) for the purchase of Journals etc.,.

D. COLLEGE OF MUSIC AND FINE ARTS.

The Committee was received by Prof. Kulkarni and was taken round the various Sections. Later on, the Committee had discussions with Prof. Kulkarni about the consolidation and development programme of the Fine Arts Section. A Visiting Committee of the Northern Regional Committee of the AICTE visited the Fine Arts Sections of the University in 1964 and has submitted a scheme, which has been approved by the University Grants Commission. As such the discussions were centralised on this scheme. Prof. Kulkarni pointed out certain deficiencies in the report by way of estimates prepared for buildings, furniture, equipment, library, maintenance expenditure etc. etc.

The Committee held discussions with Prof. Kulkarni regarding the outlook of the Art Education sought to be provided at the Banaras Hindu University Arts Department. The syllabus, as laid down by the AICTE in Applied Arts, is designed to ensure professional competence of the holders of National Diplomas in Art at the end of the five year course. It was not quite clear if the University desired to follow an identical pattern of courses or split the course in three and two years leading to B.A. and M.A. in Fine Arts respectively in the specialised subjects of Painting, Sculpture and Applied Art.

It is advisable that the University should decide on this point at this stage. As a course of studies on University level, it would be desirable to lay considerable emphasis on the intellectual equipment of the students and develop and foster the spirit of investigation and experiment in the area of visual and plastic art. In order to achieve this, calculated balance must be sought for the teaching of Theory and Practice. Aesthetics and Art history will have to be taught on a wider compass than done in the National diploma courses. The role of the artist in the design for living in the Industrially developed contemporary society may never be lost sight of, in imparting this art education at the University.

As and when the Department is firmly established, it would be desirable that the Lalit Kala Mahavidyalaya may develop a Research Wing for examining various aspects of subjects like :

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- i. Traditional techniques of indigenous Indian Art - Fresco, Miniature, Bronzes, Wood and Stone Carving.
- ii. Portraiture in Indian Art - a comprehensive study in Modern Methods Vis-a-vis the Traditional.

The Committee recommends the following additional facilities in addition to what has already been approved for the Fine Arts Section by the University Grants Commission on the basis of the report of the 1964 Visiting Committee.

NON-RECURRING.

BUILDINGS - The Committee agreed with the 1964 Visiting Committee in so far as the plinth area measuring 51,160 sq. ft. which was approved for this College, was concerned. Prof. Kulkarni pointed out that the estimates worked out in the earlier report @ Rs.15/- and Rs.10/- per sq.ft. will not hold good for this department, as the buildings for Applied Art Department have some specific requirements for lightening etc.,. Shri Gupta, Executive Engineer (PWD) of the Banaras Hindu University was also present. He pointed out that for the type of construction required for this department, a minimum rate of Rs22/- per sq.ft. for pucca construction and Rs.18/- per sq.ft. for workshop type construction is required. Accordingly, the Committee recommends that the earlier building grant of Rs.6,14,500/- be revised as under:-

(i) Pucca construction (Plinth area 20,580 sq.ft.)		
Cost of construction @ Rs.22/- per sq.ft.		Rs. 4,52,760
(ii) Workshop and Studios (Plinth area 30,380 sq.ft.)		Rs. 5,50,440
Cost of construction @ Rs18/- per sq.ft.		
Total estimated cost (51,160 sq.ft. Plinth area)		Rs.10,03,200

EQUIPMENT.

A sum of Rs.1,33,700/- was recommended by the 1964 Visiting Committee for the reorganisation scheme of this College. The above grant has since been released by the University Grants Commission and also utilised by the department, but still a large number of equipment is to be procured, but for want of funds, the department could not go ahead, As such, more funds are to be made available for the proper facilities to be provided in the department. The Committee also observed that the department should have a 'Process Camera' which is a must for this type of College. The Committee accordingly recommends an additional equipment grant of Rs.2,50,000/-

FURNITURE

A sum of Rs.20,000/- has been sanctioned by the University Grants Commission on the recommendations of the 1964 Visiting Committee. The amount was so meagre that all the furniture, which is required for this College, could not be provided. Still a large number of items are to be provided, but for want of funds, this could not be done. The Committee recommends that an additional furniture grant of Rs.30,000/- be made available to the College.

LIBRARY - A sum of Rs.10,000/- has been sanctioned under the reorganisation scheme for the library. The Committee feels that this is inadequate. The books of Fine Arts are pretty costly and the institute has to begin from scratch. The Committee recommends an additional provision of at least Rs.1,00,000/- for establishing a good library. The provision of Rs.1,00,000/-

will also include the requirements for library furniture.

RECURRING

STAFF - The Committee feels that for the development of Fine Arts Section, there should always be an interaction between the artists working in the field of professional art and the staff of the institute. The institute has just started its courses and it is likely that it takes some more time to build up a good team of staff for instruction of students. The Committee, therefore, suggests that professional artists in the field should be invited periodically to visit the institute and to give lectures/exposition. For this purpose, the Committee recommends a provision of Rs.10,000/- per annum towards payment of honorarium to the Professors visiting the institute. During the discussions, the Committee came to know that the University has not found it necessary to appoint the sanctioned post of Principal. The Committee strongly recommends that a Professor of Aesthetics and Art History may be recruited against this with the same grade as Heads of other Departments. No other change in the staff structure is recommended. The ultimate ceiling of expenditure for calculating for the salary of teaching and non-teaching staff earlier will change to Rs.2,35,090/- (Rs.2,25,090/- for the salary of teaching and non-teaching staff + Rs.10,000/- as Honorarium for Visiting Professors).

MAINTENANCE - The Committee noted that a total expenditure of Rs.9500/- has been provided in the 1964 Visiting Committee report towards consumable goods and contingencies. This is too inadequate. The Committee recommends that at least an amount of Rs.30,000/- per annum should be provided, which will give Rs.200/- per student per annum (Total student strength being 150).

LIBRARY RECURRING

The Committee also recommended a provision of Rs.15,000/- towards Library recurring expenditure.

VIII. ANCILLIARY Facilities.

The University being fully residential, the Committee recommends that immediate steps may be taken to ensure hostel facilities for 100% student body. Steps may also be taken to provide residential accommodation for all the teaching staff members. Necessary provision for funds should be made.

Necessary provision may also be made by the University Grants Commission for providing students' amenities by way of water coolers, cycle stand, common room, canteen etc. etc.,.

SUMMARY OF RECOMMENDATIONS

NON-RECURRING

	<u>Buildings</u>	<u>Equipment</u>	<u>Furniture</u>	<u>Library</u>	<u>Total.</u>
	Rs.	Rs.	Rs.	Rs.	Rs.
A.College of Engg.	15,00,000	40,00,000	3,00,000	2,00,000	60,00,000
B.College of Mining & Metallurgy	6,25,000	21,00,000	65,000	80,000	28,70,000
C.College of Technology	12,50,000	26,00,000	1,25,000	1,90,000	40,65,000

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D. College of Music & Fine Arts	10,03,200	2,50,000	30,000	1,00,000	13,83,200
Total:	43,78,200	89,50,000	5,20,000	4,70,000	1,43,18,200

RECURRING

	Salary of Staff Rs.	Maintenance Expenditure Rs.	Library (Recurring) Rs.	Total. Rs.
A. College of Engg.	44,63,500	7,50,000	50,000	52,68,500
B. College of Mining & Metallurgy	15,37,000	2,54,000	30,000	18,21,000
C. College of Technology	13,13,550	2,53,000	30,000	15,96,550
D. College of Music & Fine Arts	2,35,000	30,000	15,000	2,80,000
	<u>75,54,140</u>	<u>12,87,000</u>	<u>1,25,000</u>	<u>89,66,140</u>

Review of Progress :

With a view to reviewing the progress of implementation of the recommendations, the Vice-Chancellor may set up a suitable machinery for the purpose such as a Standing Committee of the Principals and Heads of Departments concerned.

ACKNOWLEDGMENT

The Visiting Committee is grateful to Dr.A.C.Joshi, Vice-Chancellor and Principal M.Sengupta, Principal S.S.Saluja, Principal Gopal Tripathi, Professor Kulkarni, Dr.K.B.Lal, Registrar and other staff members of the University for giving full assistance and supplying the material required by the Visiting Committee.

Sd/-P.K.Kolkar
(P.K.Kolkar)
Chairman

Sd/- V.Lakshminarayanan
(V.Lakshminarayanan)
Member

Sd/-G.S.Laddha
(G.S.Laddha)
Member

Sd/-Brahm Prakash
(Brahm Prakash)
Member

Sd/-B.C.Sanyal
(B.C.Sanyal)
Member

Sd/-G.N. Vaswani
(G.N.Vaswani)
Secretary

Sd/-S.Sadasivam
(S.Sadasivam)
Secretary

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Statement of the grants approved/released to the college of Engineering, College of Mining and Metallurgy and College of Technology, Banaras Hindu University, Varanasi under various Schemes(1985 onwards) by the University Grants Commission (As on 21.8.1967).

1.	2.	3.	4.
Name of the scheme as approved from time to time by the AICTE	Grants approved by UGC Rs.	Grants released by UGC Rs.	Remarks
A. COLLEGE OF ENGINEERING			
<u>Under Graduate Courses</u>			
(i) Improvement of instructional facilities in the existing degree courses at the Engineering College.			
Building	15,56,320 **	15,56,000	** This also includes building for expansion scheme which has been completed at a total cost of Rs.15,55,952.59
Equipment	11,95,000	8,50,000	
Furniture	92,000	85,000	
(ii) Expansion of the training capacity of the Engg. College.			
Building	See No. (i)	See No. (i)	
Equipment	5,72,000	4,55,000.	
(iii) Additional equipment grant for strengthening the existing facilities in the Civil Engg. Department.	3,84,700	2,30,000	
(iv) Consolidation and Development of Deptts. of Civil, Electrical & Mechanical Engineering.			
Building	8,96,100	8,90,000	
Equipment	10,23,000	1,50,000	
Furniture	50,000	-	
Library	50,000	-	
(v) Expansion under the National Emergency, Engineering College.			
Building	90,000	85,000	
Furniture	58,000	28,000	
(vi) Introduction of 5-Years Integrated Course at the Engineering College.			
Building	4,52,400	2,75,000	
Equipment including furniture	1,50,000	50,000	
(vii) Basic grants for purchase of library books and journals	60,000	-	
<u>Post-Graduate Courses</u>			
(1) Post Graduate course in Electrical Machine Design.			
Building	96,000	- *	* No building and equipment grant was paid the scheme is to be examined afresh.
Equipment	4,74,500	- *	
<u>Summary of Grants Approved/Released to the College of Engineering.</u>			
<u>Under Graduate Courses</u>			
Building	29,95,200	26,06,000	
Equipment	33,24,700	17,85,000	
Furniture	2,00,000	1,13,000	
Library	1,10,000	-	
	65,29,900	45,04,000	
<u>Post Graduate Courses</u>			
Building	96,000	-	
Equipment	4,74,500	-	
	5,70,500	-	

1.	2.	3.	4.
B. COLLEGE OF MINING & METALLURGY			
<u>Under-Graduate Courses</u>		Rs.	Rs.
(i) Development of instructional facilities in the Deptt. of Mining & Metallurgy.			
Building	5,70,000		4,50,000
Equipment	3,85,500		3,15,000
Library	30,000		30,000
(ii) Raising the standard of instructional facilities at the College of Mining & Metallurgy.			
Equipment	4,46,600		3,45,000
(iii) Introduction of Five Year Integrated course at the College of Mining & Metallurgy.			
Building	3,00,350		1,75,000
Equipment	1,50,000		55,000
(iv) Consolidation & Development of the Deptt. of Mining & Metallurgy.			
Building	1,91,500		50,000
Equipment	7,88,150		2,30,000
Furniture	25,000		-
Library	25,000		5,000
(v) Basic grants for purchase of library books and journals.	40,000		-
<u>Post-Graduate Courses</u>			
(i) Post Graduate Course in Advanced Metallurgy			
Building	24,000		24,000
Equipment	2,85,000		2,85,000
(ii) Expansion of Post-graduate Course in Metallurgy.			
(iii) Development of the Pilot Plants laboratory - Deptt. of Metallurgy.			
Building	65,000		35,000
Other items	24,000		-
(iv) Introduction of Post-graduate course in Coal Mining & Metal Mining.			
Building	1,12,500		25,000
Equipment	2,00,000		40,000
Furniture	6,000		-
(v) Purchase of equipment for Ferrous production Metallurgy in the Department of Metallurgy.	80,000		40,000
<u>Research Schemes</u>			
(i) Research scheme in Physical Metallurgy.			
Equipment	34,500		32,500
Summary of Grants Approved/Released to the College of Mining & Metallurgy.			
<u>Under Graduate</u>			
Building	10,61,850		6,75,000
Equipment	17,68,250		9,45,000
Furniture	25,000		-
Library	95,000		35,000
<u>Post-Graduate</u>	<u>29,50,100</u>		<u>16,55,000</u>
Building	2,05,800		84,000
Equipment	5,65,000		3,65,000
Furniture	6,000		-
	<u>7,76,800</u>		<u>4,49,000</u>
<u>Research Schemes</u>			
Equipment	34,500		32,585

* Includes Rs.1,00,00 for construction of Mine Ventilation Gallery.

1.	2.	3.	4.
	Rs.	Rs.	
C. COLLEGE OF TECHNOLOGY			
<u>Under-Graduate Courses</u>			
(i) Development of the Department of Chemical Engg. & Chemical Technology.			
Building	8,36,300	8,00,000	
Equipment	6,60,500	2,75,250	
Furniture	49,800	49,000	
Library	30,000	22,000	
(ii) Development of the instructional facilities at the College of Technology.			
Building	2,87,996	2,15,000	
Furniture	25,000	10,000	
(iii) Provision for additional facilities in General. & Engrg. subjects (Common Unit)			
Building	5,90,000	1,70,000	
Equipment	6,02,000	-	
Furniture	25,000	-	
(iv) Development of the Department of Silicate Technology.			
Building	82,230	78,198	
Equipment	2,00,000	1,75,000	
(v) Consolidation and development of the Department of Silicate Technology.			
Building	2,31,000	-	
Equipment	7,38,00	30,000	
(vi) Provision of certain Misc. items in the College of Technology.	55,200	-	
(vii) Introduction of 5-year integrated course at the College of Technology.			
Building	1,05,000	40,000	
Alterations in the existing building	20,000	-	
Equipment	1,20,000	40,000	
(viii) Re-organisation of three-year degree course in Pharmacy into a four integrated degree course in Pharmacy.			
Building	66,000	55,000	
Equipment	25,000	25,000	
Furniture	15,000	15,000	
Library and Audio-visual Aids	20,000	20,000	
(iv) Basic grants for purchase of Library books and journals.	50,000	-	
<u>Post-Graduate Courses</u>			
(i) Re-organisation of Post-graduate course in Pharmacy at the Deptt. of Pharmacy College of Technology.			
Building	1,24,070*	90,000	* This also includes Rs.6000 furniture
Equipment	1,50,000	50,000	
<u>Summary of Grants Approved/Released to the College of Technology.</u>			
<u>Under-Graduate</u>			
Building	22,18,400	13,58,200	
Equipment	23,45,500	5,45,250	
Furniture	1,14,800	74,000	
Library	1,00,000	42,000	
Miscellaneous	55,200	-	
	<u>48,33,900</u>	<u>20,19,450</u>	
<u>Post-Graduate</u>			
Building	1,24,070	90,000	
Equipment	1,50,000	50,000	
	<u>2,74,070</u>	<u>1,40,000</u>	

Statement giving information with regard to courses conducted, duration of courses, Sanctioned intake, Total student body, Total staff assessed for the College of Engineering, Mining & Metallurgy, Technology & Music and Fines Arts, B.H.U. Varanasi.

S.No.	Name of the Institute.	Designation of course.	Subject	Duration of course.	Sanctioned intake capacity.	Total sanctioned student body.	Total staff assessed by Visiting Committee (September 1967)		
1.	Engineering College, B.H.U., Varnasi.	Post-graduate	i) Hydraulics & Hydraulic Structure	2 Year	10	20	Principal - 1		
			ii) Soil Mechanics & Foundation Engg.	-do-	10	20	Professors - 23 *		
			iii) Machine Design	-do-	10	20	Asstt.Prof./Readers - 82		
			iv) Power System Engg.	-do-	10	20	Lecturers - 94		
			v) Applied Electronics & Servo Mechanism	-do-	10	20			
			vi) Electrical Machine Design	-do-	10	20	<u>200</u>		
		Degree	i) Civil Engineering	5 Year	100	500			
			ii) Mechanical Engineering	-do-	125	625			
			iii) Electrical Engineering	-do-	125	625			
		.	College of Mining & Metallurgy, B.H.U. Varanasi.	Post Graduate	i) Mining	2 Year	12	24	Principal - 1
					ii) Metallurgy	-do-	25	50	Professors - 9*
				Degree	i) Mining	5 Year	40	200	Asstt.Profs./Readers - 27
ii) Metallurgy	-do-				60	300	Lecturers - 29		
							<u>68</u>		
							Principal - 1		
}	College of Technology, B.H.U. Varanasi.	Post-graduate	i) Chemical Engineering	2 Year	10	20	Professors - 7 *		
			ii) Pharm.	-do-	10	20			
		Degree	i) Chemical Engineering	5 Year	60	300	Asstt.Prof./Readers 23		
			ii) Pharmacy	4 Year	22	88	Lecturers - 27		
	iii) Silicate Tech.	3 Year	30	90	<u>58</u>				
.	College of Fine Arts,	Degree	i) Painting	5 Year	10	50	Principal - 1		
			ii) Sculpture	-do-	10	50	Professor - 3		
			iii) App. Art *	-do-	10	50	Asstt.Prof. - 3		
							Lecturers - 7		
					<u>14</u>				

* Cadre of Professors - includes Professors in Sr. Grade, Professors and Associate Professors.

Meeting
Dated 6th March, 1968.

Item No. 7(b): To consider again the recommendations of the A.I.C.T.E. for the introduction of post-graduate courses in Business Management at Banaras Hindu University.

The Commission at its meeting held on 3rd May, 1967 (Item No. 20(a) Annexure I) considered the proposal of Banaras Hindu University for starting a post-graduate diploma course in Business Management and desired that in view of the present difficult budgetary position the proposal may be brought before the Commission at a later meeting. The Commission also noted that it would not be possible for the University to start the course before July 1968, in any case.

The Banaras Hindu University has placed the following facts in support of its proposal for starting the Post-graduate Diploma Course in Business Management:

(1) There has already been a long delay in starting the diploma course at the university, resulting in considerable disappointment to the Faculty and to the public at large, which has been demanding this course of study at the university for a number of years.

(2) The course is directly useful for furtherance of sound industrial growth of the country, as lack of adequately qualified and trained management personnel is proving a serious bottleneck in the efficient and smooth implementation of the programme of industrial development.

(3) In view of the facilities available for the teaching of technical business and behavioural disciplines on the university campus, the Banaras Hindu University is eminently suited for running such a course. There is also a good demand for it from a large number of industrial, business and financial units located in and around the city. The A.I.C.T.E., in approving the starting of the diploma courses at the university was impressed by these considerations.

(4) The University has completed all the formalities on its side regarding starting of this course.

It may be mentioned that the following facilities have been recommended by A.I.C.T.E. for this course:

I. Non-Recurring

(1) Accommodation	12,000 sq.ft. plinth
(ii) Furniture	Rs. 21,000
(iii) Equipment	Rs. 75,000
(iv) Library	Rs. 16,000

II. Recurring

(a) Teaching Staff:

(1) Professor	- 1
(ii) Reader/Asstt. Professor	1
(iii) Lecturer	- 1
(iv) Case Analyst	- 1
(v) Teaching Asstt.	- 1
(vi) 180 hours of part-time lectures in Business Management @ Rs. 40/- per hour.	

(35)

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(b) Administrative Staff

(i) Office Superintendent	1	1
(ii) Accountant	1	1
(iii) Librarian	1	1
(iv) Clerk	1	1
(v) Laboratory Assistants	4	4
(vi) Class IV Staff	6	6

(c) Library Rs. 4,000 per year

(d) Guest Speakers Rs. 2,000 per year

The matter is placed before the Commission for consideration.

E.O.(T)/D.O(T)

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Copy of note placed before the Commission at its meeting held on 3rd May, 1967, vide Item No. 20(a)

In June 1964, the Banaras Hindu University sent a proposal for the establishment of a department of Business Administration at the university which was forwarded to the A.I.C.T.E. for recommendations.

The A.I.C.T.E. has approved the starting of a post-graduate diploma course (part-time) in Business Management at the University. The annual intake to the course will be 30. The A.I.C.T.E. has recommended that the following facilities may be approved.

I. Non-Recurring

(i) Accommodation	12,000 sq.ft. plinth area
(ii) Furniture	Rs. 21,000
(iii) Equipment	Rs. 75,000
(iv) Library	Rs. 16,000

II. Recurring

(a) Teaching Staff

(i) Professor	- 1
(ii) Reader/Assistant Professor	- 1
(iii) Lecturer	- 1
(iv) Case Analyst	- 1
(v) Teaching Assistant	- 1
(vi) 180 hours of part-time lectures in Business Management at the rate of Rs. 40/- per hour.	

(b) Administrative Staff

(i) Office Superintendent	- 1
(ii) Accountant	- 1
(iii) Librarian	- 1
(iv) Clerk	- 1
(v) Laboratory Assistants	- 4
(vi) Class IV Staff	- 6

(c) Library Rs. 4,000 per year

(d) Guest Speakers Rs. 2,000 per year

The A.I.C.T.E. has also intimated that the following conditions should be attached to the grants:

- (1) The admission to the course should be limited to persons with a degree in Engineering, Technology, Science and Humanities.
- (2) Students admitted to the course should have a minimum of two years industrial or commercial experience in a responsible junior executive position (A junior executive is a person, who has in general about 10 persons working under him with a salary not less than Rs. 300/- . The criterion whether a person is in executive position or not is whether he is empowered to take decision).
- (3) To facilitate migration from one institution to another, the syllabus prescribed by the All India Council for Technical Education should be adhered to, with only minor variations.

- (4) Persons admitted to the course should have a minimum of two years industrial/commercial experience. There should be no relaxation of this rule. It would be the responsibility of the institutions concerned to ensure that this condition is strictly observed. The trainees should be sponsored by their establishments and as far as possible it should be the endeavour of the university to see that fees charged for the course are paid by the sponsoring authority.
- (5) Admission to the course should be made only after satisfactory arrangements had been made for the em appointment of full-time and part-time staff and this should be in accordance with the pattern approved by the All India Council for Technical Education.

The matter is placed before the Commission for consideration.

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UNIVERSITY GRANTS COMMISSION

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Meetings:

Dated 5th March, 1968

Item No. 17(c): To consider the recommendation of the A.I.C.T.E. regarding provision of students' amenities at Jadavpur University.

....

On the recommendations of its Eastern Regional Committee, the All India Council for Technical Education has recommended for the provision of the following students' amenities at the Jadavpur University:

<u>Non-Recurring (Building)</u>	<u>Approved Expenditure</u>
(a) (i) Canteen with Kitchen etc. = 5,200 sq.ft. (plinth area)	Rs. 2,52,000
(ii) Common Room 3,200 sq.ft. (plinth area)	
Total plinth area = 8,400 sq.ft. @ Rs. 30/- per sq.ft.	
(b) Cycle stand for 1500 cycles @ Rs. 20/- each.	30,000
Total	Rs. 2,82,000
UGC's share @ 50 : 50 =	Rs. 1,41,000

The Commission at its meeting held in March 1967 (Item No. 31) agreed to the suggestions of the Ministry of Education to postpone the implementation of the students amenities' scheme in engineering/technological institutes due to paucity of funds and desired that it should be revised as soon as the position regarding availability of funds was better. The Ministry of Education, withdrawing the restrictions on the provision of students amenities', has suggested that the recommendations of the AICTE for providing students amenities' at Jadavpur University may now be considered by the Commission.

The recommendations of the AICTE involve an expenditure of Rs. 2,82,000 (UGC's share being Rs. 1,41,000) towards students amenities at the Jadavpur University.

The matter is placed before the Commission for consideration.

E.O.(T)/D.O.(T)

Meeting:
Dated 6th March, 1968.

Item No. 7(d): To consider the recommendations of A.I.C.T.E. regarding additional grant for the purchase of equipment for post-graduate courses in Engineering at Jadavpur University.

....

The Commission at its meeting held on 2nd December, 1964 (Addl. Item No. 6) accepted the recommendations of the All India Council for Technical Education for the introduction of Post-graduate Courses in Engineering at Jadavpur University and approved inter-alia the following equipment grants to be paid on cent percent basis:

<u>Name of the Course</u>	<u>Amount approved (100%)</u>
1) Civil Engineering	Rs. 1,00,000
2) Mechanical Engineering	Rs. 1,65,000
3) Electrical Engineering	Rs. 2,50,000
4) Tele-Communication Engineering	Rs. 4,00,000
5) Chemical Engineering	Rs. 1,65,000
6) General	Rs. 50,000
	Rs. 11,30,000

On further recommendations of the A.I.C.T.E. the Commission in July, 1967 (Item No. 16(a)) sanctioned an additional equipment grant of Rs. 1,97,000 on account of devaluation of the rupee. The University allocated this amount amongst the various courses as under:

1) Civil Engineering	Rs. 22,000
2) Mechanical Engineering	Rs. 23,000
3) Electrical Engineering	Rs. 52,000
4) Tele-communication Engineering	Rs. 97,000
5) Chemical Engineering	Rs. 3,000
Total	Rs. 1,97,000

In March, 1967, the Jadavpur University intimated that for proper and efficient teaching further items of equipment were required, involving an additional grant amounting to Rs. 23.81 lakhs. The proposal was forwarded to the A.I.C.T.E. in June, 1967 for consideration.

The Ministry of Education vide their letter dated the 6th February, 1968 have informed that the Chairman, Board of Postgraduate Engineering Studies and Research of the AICTE has recommended additional equipment grants amounting to Rs. 18,94,000 required for continuance of the following Postgraduate courses in Engineering at Jadavpur University:

<u>Name of the Department/Course</u>	<u>Additional approved cost</u>
1) Civil Engineering	Rs. 2,76,000
2) Mechanical Engineering	Rs. 3,65,000
3) Electrical Engineering	Rs. 3,05,000
4) Tele-Communication Engineering (including electronics)	Rs. 6,42,000
5) Chemical Engineering	Rs. 3,06,000
	Rs. 18,94,000

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It may be mentioned in this connection that the grants sanctioned by the Commission in 1964 were based on the student strength of 40 in each discipline. The University has intimated the enrolment position in 1966-67 as under:

	Mech. Engg.	Elec. Engg.	Mech. Engg.	Civil Engg.	Elect & Tele. Com. Engg.
Ist Year	17	15	3	13	15
2nd Year	15	11	5	5	15
Total	32	26	8	18	30

If the recommendations of the A.I.C.T.E. are accepted grants amounting to Rs. 18,94,000 would be paid on 100% basis to the University as and when necessary.

The matter is placed before the Commission for consideration.

E.O(T)/D.O(T)

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 6th March, 1968

Item No. 8 : To consider the proposal of the Department of Social Welfare for the establishment of a National Council of Social Work Education and Training.

....

The Department of Social Welfare has forwarded a draft proposal establishing a National Council of Social Work Education and Training for the comments of the U.G.C. The functions and composition of the Council are proposed to be as follows:

- (i) To assess personnel requirements in the field of Social Welfare and to advise in regard to relating the training programmes more effectively with the man-power requirements.
- (ii) To undertake periodical studies on the contents of the syllabuses and training programmes of Social Work Education and to advise on problems relating to the requirements of modernization of social work education and making them more effective and relevant to field conditions.
- (iii) To collect and communicate information about training facilities and employment opportunities in the field of Social Welfare.
- (iv) To advise on the maintenance of adequate standards of training in Social Welfare.
- (v) To encourage research in the field of Social Work and to collect and disseminate information on research relating to Social Work programmes.

It may be mentioned in this connection that the Review Committee on Social Work Education, jointly appointed by the U.G.C. and the Ministry of Education, considered the setting up of a National Council on Social Work Education for purposes of coordinating training programmes in institutions of Social Work in India.

The matter is placed before the Commission.

E.O(H)/D.O(H)

Meeting;

Dated 6th March, 1968.

Item No.10: To consider the report of the Committee appointed by the University Grants Commission to advise on the operational details regarding payment of direct subsidy to college students for purchasing textbooks.

The University Grants Commission at its meeting held on 5th July 1967 considered a proposal from the Ministry of Education, Government of India, for payment of direct subsidy to the college students for purchasing textbooks with an annual grant of Rs.50 lakhs plus Rs.1 lakh per annum as administrative expenses (Item No.34(c)).

In anticipation of sanction of the scheme by the Government of India, the Commission appointed a Committee under the chairmanship of Dr.P.B. Gajendragadkar, Vice-Chancellor, Bombay University and Member, University Grants Commission to draw broad guidelines for the operation of the scheme. The meeting of the Committee was held on the 4th January 1968 in the office of the Commission. A copy of the report is attached, as Appendix I.

The main recommendations of the Committee are as below: -

1. The scheme will initially cover selected students at the first and second degree levels in various courses (arts, science, commerce and professional) studying at institutions approved under the UGC Act.
2. All deserving students in each class of the various courses will be eligible for assistance, 10 percent of whom will be selected annually on the basis of merit-cum-means, to make a beginning because of limited funds.
3. Assistance upto Rs.50 (Rs.100 for postgraduate and professional course-students) per year for the purchase of books prescribed by the institutions may be given to a student.

The matter is placed before the Commission for consideration.

A.E.O(GI)/D.O(T)

Report of the UGC Committee to advise on the operational details regarding payment of direct subsidy to college and university students for purchasing textbooks.

The Commission at its meeting held in July 1967 considered a proposal from the Ministry of Education, Government of India, for payment of direct subsidy to college students for purchasing textbooks with an annual grant of Rs.50 lakhs plus Rs.1 lakh as administrative expenses.

The Commission welcomed the proposal and felt that the operational details of the scheme (value of the assistance, coverage, selection, mode of payment, etc.) may be drawn on the advice of a UGC Committee as indicated below:

1. Dr.P.B.Gajendragadkar,
Vice-Chancellor,
Bombay University.
2. Dr.B.N.Ganguli,
Vice-Chancellor,
Delhi University.
3. Dr.K.L.Wig,
Director,
All India Institute of
Medical Science,
New Delhi.
4. Prof.H.C.Guha,
Vice-Chancellor,
Jadavpur University,
Calcutta.
5. Shri J.P.Naik,
Advisor,
Ministry of Education,
Government of India,
New Delhi.
6. Dr.P.D.Shukla,
Jt.Educational Adviser(GE)
Ministry of Education,
Government of India,
New Delhi.
7. Dr.C.D.S.Devanesan,
Principal,
Christian College,
Madras.
8. Dr.P.J.Philip,
Secretary,
University Grants Commission.

The meeting was held on January 4, 1968 at 11.00 A.M. in the office of the Commission under the chairmanship of Dr.P.B.Gajendragadkar, Development Officer (T) and Education Officer(F) were also present at the meeting and participated in the discussions.

Dr.B.N.Ganguli and Shri J.P.Naik could not attend the meeting.

INTRODUCTION.

One of the major problems facing education in India, especially at the university level, pertains to non-availability of reasonably priced textbooks. The Committee welcomed the proposal of the Government of India to assist students directly to buy textbooks.

For the successful operation of the scheme, the Committee recommended that the following arrangements may be made:

I. AGENCY

The implementing agency for this scheme will be the University Grants Commission.

II. FUNDS

The Government of India will place at the disposal of the University Grants Commission a sum of Rs.50 lakhs annually towards implementation of this scheme. A further sum of Rs.1 lakh per annum will also be made available to the Commission for meeting the administrative expenditure.

III. SCOPE

The scheme will initially cover selected students at the first and second degree levels in various courses (arts, science, commerce and professional courses) studying at institutions approved under the UGC Act.

IV. MODE OF SELECTION

All deserving students in each class of the various courses at the first and second degree levels at any institution recognised under the UGC Act will be eligible for assistance, 10 percent of whom will be selected annually on the basis of merit-cum-means to make a beginning, because of limited funds.

(a) Criteria for Means Test

Students who are not in receipt of any assistance or scholarship, including loan scholarship, of the value of Rs.25 or more per month will be eligible for assistance under the Means Test.

(b) Criteria for Merit Test

Out of the total enrolment in each class at the first and second degree levels, the top 10 percent of the students, on the basis of marks obtained by them in the previous examination and who fulfil the conditions of eligibility under the Means Test stated above, will be eligible for assistance under the Scheme.

(c) Selection of Students

The selection of the top 10 percent students of each class at the first and second degree levels on the basis of merit-cum-means for assistance under the scheme, will be made by a committee set up by the concerned institution consisting of the head of the institution along with three or four members of the teaching staff.

V. PROCEDURE FOR IMPLEMENTATION

(i) Quantum of Assistance: Assistance upto Rs.50/ Rs.100 for postgraduate and professional courses each may be given to the selected students in a year for the purchase of textbooks prescribed by the institution.

(ii) The selected students will be required to submit to the head of institution concerned the list of textbooks, within the amount sanctioned, needed by them duly approved by the head of the department/teacher concerned.

(iii) The institution concerned will consolidate the list of textbooks thus submitted by the selected students and make the necessary arrangements for procuring the books, through their Co-operative Book Store, wherever it exists, or purchase them directly from authorised booksellers for distribution to the selected students at the beginning of the academic session.

(iv) The books thus distributed will remain with the awardees for the entire period of their course of study for which the assistance has been made available to them. On completion/relinquishment of the course of study for which the book grants have been made available, the students will be required to deposit the textbooks, procured under the scheme, to the Textbook Library (set up with the UGC assistance) for use by the student population.

(v) To enable the institutions concerned to introduce this scheme at the beginning of the academic session 1968-69, the Commission will place at their disposal in May/June 1968 an 'on account' grant of 50 percent of the admissible amount on the basis of total enrolment in the various classes at the first and second degree levels, as on 1st October 1967, and the balance of the admissible grant will be released on receipt of the actual enrolment class-wise for the year 1968-69, alongwith a statement of the expenditure incurred in respect of the grant released. As the admissions are generally made by August, the institutions are expected to be in a position to furnish this information by September, which would enable the Commission to release the second instalment of the grant during September/October of the year. The same procedure will continue in subsequent years.

(vi) The recipient institutions will be responsible for submitting the utilisation certificate alongwith the audited statements of account against the grants released through their normal auditing agencies before the commence of the next academic session. The expenditure, if any, incurred on this account will have to be borne by the institutions themselves.

vi. ENROLMENT

The Committee considered the enrolment position at the first and second degree levels in institutions recognised under the UGC Act for the year 1966-67 which were as follows:

Non-professional courses

Arts	...	3,70,540
Science	...	2,58,701
Commerce	...	1,06,057

Total		7,35,298

Professional courses

Engineering/Technology	...	61,070
Medicine	...	56,201
Law	...	26,168

Total		1,43,439

		8,78,737
Postgraduate enrolment	...	91,830

Grand Total		9,70,567

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The enrolment for the year 1968-69 at the first and second degree levels in various courses of studies (arts, science, commerce and the professional courses) may be of the order of 10 lakhs. The coverage of the top 10 percent students at the first and second degree levels as proposed for assistance under the scheme, will enable about 1 lakh of deserving students to be benefited each year.

The Committee felt that the scheme of providing assistance to deserving students for purchasing textbooks with an annual grant of Rs. 50 lakhs, as proposed to be implemented through the UGC, would go a long way in meeting the urgent and immediate needs of a large number of students in procuring textbooks which in many cases are beyond the reach of the average Indian student. For the immediate implementation of the scheme, the Committee suggested that the Ministry of Education may be approached for making funds available to the U.G.C. at an early date so that necessary grants may be released to the colleges and other institutions by April/May 1968 for procuring books for distribution to the selected students at the beginning of the academic session of 1968-69.

It was noted that under the present set-up of the U.G.C., the benefit of the scheme is available only to institutions recognised under the UGC Act and institutions of National importance, such as the I.I.Ts, A.I.M.S., etc. are not eligible for assistance. The Committee was of the view that deserving students at these institutions also should have the benefit of similar help from the corresponding agencies or concerned Ministries.

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UNIVERSITY GRANTS COMMISSION

Meetings
Dated 8th March, 1968.

Item No. 11: To consider the report of the Committee appointed by the University Grants Commission to consider the integration of the Scheme of Historical Grammar of Hindi language and survey of literature of the Banaras Hindu University with the Hindi Department.

The Commission at its meeting held on 1st March, 1967 considered the question of extending the period of assistance towards the scheme of historical grammar and survey of Hindi literature taken up for implementation by the Banaras Hindu University during the Second Plan period. The Commission felt that it would help the progress of the scheme if it was taken over by the Central Hindi Directorate. The Commission also desired that the matter may be discussed with the Ministry of Education and in the meantime the period of the scheme be extended upto June 30, 1967.

The Ministry of Education did not agree to the proposed transfer of the scheme as the Central Hindi Directorate had already enough work in respect of old projects which were still awaiting completion and also in view of the current and future work to be taken in hand.

In view of this, the Commission agreed to the continuance of the scheme till the end of the current year i.e. upto 31st March, 1968, and desired that the University be requested to integrate the scheme with the work of the Hindi Department of the University with effect from the year 1968 and that for examining the matter a joint committee of the U.G.C. and the University be appointed.

Accordingly, the Commission appointed a Committee consisting of the following:

1. Prof. A.R. Wadia, Chairman
Member,
University Grants Commission.
2. Dr. M.P. Gupta,
Director,
K.M. Institute of Hindi Studies
and Linguistics,
Agra.
3. Dr. Brij Mohan,
Principal,
Arts College,
Banaras Hindu University.
4. Shri. P.N. Acharya,*
Acting Head of the Hindi Department,
Banaras Hindu University.

The Committee visited the Banaras Hindu University on 4th and 5th November, 1967, and discussed the objectives, research design and scope of the scheme, progress of work so far done and the question of integrating the project with the work of the Hindi department with Dr. B.S. Vyas and Dr. S.P. Singh, Deputy Directors of the scheme who are also permanent members of the Hindi Department. Two volumes, one dealing with

* Since expired.

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phonological aspects of Hindi language and the other with the socio-literary background of Hindi literature and a survey of apabhraṅsa, adikal and sant poetry were reported to be ready for publication. The report of the Committee is attached (Annexure I).

The Committee examined some portions of the two manuscripts and was greatly disappointed to find that this project which was approved in the Second Plan and taken up for implementation in January, 1962 had been lingering on without being completed according to the original time-schedule and in spite of several extensions granted from time to time.

While recognising the difficulties inherent in a project of this kind, the Committee felt that there had been lack of planning, coordination in the execution of this project from the very beginning, lack of clarity about its objectives and scope and some misunderstanding regarding the utilisation of grants sanctioned by the Commission for the project.

The terms of reference of the Committee included an examination of the question of integrating this project with the work of the Hindi department with effect from April 1, 1968. The Committee discussed this question in its various aspects with the members of the Hindi department. While the main advantage of integration would be that the work of the project could be carried on as a normal academic activity of the department, the Committee felt that owing to the specialised nature of work involved in this project it would not be advisable to dispense with the services of research staff till the four volumes in hand were prepared and ready for publication.

The Committee has suggested that the first two volumes which have already been prepared, one relating to historical grammar and the other to the history of Hindi literature, should be referred to experts in the concerned areas. The experts to whom the volumes are referred should be paid suitable remuneration for editing the volumes. The second volume of the two sections could be completed by September, 1968, which means an extension of six months over the period already agreed to by the Commission. The Committee has further recommended that the following facilities may be sanctioned for the unit for the remaining period upto September, 1968:

Two Deputy Directors	-	Allowance of Rs. 200 p.m.
Sixteen Research Assistants	-	In the scale of Rs. 300-25-350 with normal allowances of the university.
Books and Manuscripts	-	Rs. 2,000
T.A. and Field work	-	Rs. 1,000

Extension upto September, 1968 may be granted after obtaining a specific assurance from the Director of the project that the remaining two volumes would be completed by the stipulated date. After completion, these volumes should also be referred to experts for suitable editing.

The financial implications of the above recommendation for the period April to September, 1968, including remuneration for editing at the rate of Rs. 1,000 per volume, would be Rs. 57,400. The University may be requested to adjust this amount within 70 per cent of its Fourth Plan allocation.

The Committee has also recommended that the U.G.C. should devise a machinery for screening research projects of this nature and for watching the progress of various research projects under implementation in the universities.

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It may be mentioned in this connection that Dr. Brij Mohan, Principal, Central Hindu College, who was a member of the committee, has approved the report subject to the following comments based on the recommendations of the Historical Grammar Committee of the Banaras Hindu University:

- (a) The minimum time required to finish the work would be up to 31st March, 1970.
- (b) Assistance towards the scheme should be provided outside 70% of the Fourth Plan allocation.
- (c) If these conditions are not fulfilled, no extension be given beyond 31st March, 1968 and that whatever work has been done should be presented to the U.G.C.

Dr. Hazari Prasad Dwivedi who took over as Head of the Hindi Department in January, 1968, while fully agreeing with the views of the Committee, has reiterated the observations and comments of the Banaras Hindu University Historical Grammar Committee mentioned above.

The matter is placed before the Commission for consideration.

E.O(H)/D.O(H)

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Report of the Committee appointed by the University Grants Commission to consider the integration of the scheme of Historical Grammar of Hindi Language and Survey of Literature with the Hindi Department of the Banaras Hindu University.

The University Grants Commission approved the scheme of the Banaras Hindu University for the preparation of historical grammar of Hindi language and an examination of the existing materials for the study of Hindi literature at an estimated cost of Rs.1,45,000(R) for the Second Plan period as detailed below:

(i)	Two Deputy Directors	...	Rs.200 p.m. each
(ii)	16 Research Fellows	...	Rs.200 p.m. each
	One Clerk		(subsequently raised raised to Rs.300 p.m.)
	One Peon		
(iii)	Advisory Council	...	Rs.4000 p.a.
(iii)	T.A. and procurement of material.	...	Rs.10,000 per annum
(iv)	Contingencies etc.	...	Rs.1,000 per annum

2. A convention of noted Hindi scholars was organised by the University in July, 1962 to discuss the objectives and scope of the scheme. It was agreed that the scheme should incorporate research reports of unpublished Hindi books besides available published material. In the light of these suggestions, the Advisory Committee appointed by the University for the scheme gave a concrete shape to the project and it was decided that the whole work should be divided into three volumes for each of the two sections. The Historical Grammar of Hindi language should deal with phonological, morphological and syntactical studies. Volume I of the proposed Hindi literature should deal with the sociolo-literary background of Hindi literature including apabhraṅsa, adikal and sant poetry; the second volume with medieval literature and the third volume with modern Hindi literature.

3. The scheme was continued during the Third Plan period. Later, the University requested the Commission to extend it upto March, 1968. The Commission appointed a committee consisting of (atē) Dr. B.N. Prasad, Chairman, Scientific and Technical Terminology Commission, Dr. S.M. Katre, Director, Deccan College Postgraduate Research Institute, Poona and Dr. A. Sharma, Principal, University College of Arts and Commerce, Osmania University, to evaluate the work already done under the scheme and also to suggest the schedule of programme to be followed by the university in case the scheme was further extended. The Committee recommended continuation of the scheme upto 31st March, 1968 and suggested that the university should invite two or three experts in linguistics to go through the manuscripts and suggest necessary changes.

4. The recommendations of the Committee were placed before the Commission at its meeting held on 3rd November, 1965. The Commission resolved that the University in consultation with the U.G.C. may invite two or three experts in linguistics to go through the manuscripts of the two volumes already prepared and report whether the staff already employed by the University may continue for another year and that no post lying vacant from the posts already sanctioned for the scheme be further filled in.

5. In pursuance of the above resolution, the university appointed, with the Commission's concurrence, two sets of experts to evaluate the work done on the 'Grammar Section' and 'History Section' of the

scheme. The University, however, made a request for extension of the time-limit till the scheme was examined by the experts, on the ground that it would be difficult for the university to re-employ the disbanded staff in case the scheme was extended by the Commission for a further period on the recommendations of the experts. Keeping this in view, the existing incumbents, employed under the scheme, were allowed to continue upto 31st December, 1966 on condition that the evaluation of the scheme must be completed before this date at the latest.

6. While recommending the continuation of the scheme, the experts suggested major changes in the work already completed for publication and certain delimitations, extensions of enquiry and coverage of some important source materials.

7. The reports of the experts were considered by the Commission at its meeting held on 1st March, 1967. The Commission felt that it would help the progress of the scheme if it was taken over by the Central Hindi Directorate. The Commission also desired that the matter may be discussed with the Ministry of Education and in the meantime the period of the scheme be extended upto June 30, 1967.

8. The Ministry of Education did not agree to the proposed transfer of the scheme as the Central Hindi Directorate had already enough work in respect of old projects which were still awaiting completion and also in view of the current and future work to be taken in hand.

9. In view of this, the Commission agreed to the continuance of the scheme till the end of the current year i.e. upto 31st March, 1968, and desired that the University be requested to integrate the scheme with the work of the Hindi Department of the university with effect from the year 1968 and that for examining the matter a joint committee of the UGC and the University be appointed.

Accordingly, the Commission appointed a Committee consisting of the following:

1. Prof. A.R. Wadia, (Chairman)
Member,
University Grants Commission.
 2. Dr. M.P. Gupta,
Director,
K.M. Institute of Hindi Studies,
and Linguistics,
Agra.
 3. Dr. Brij Mohan,
Principal,
Arts College,
Banaras Hindu University.
 4. Shri P.N. Acharya,
Acting Head of the Hindi Department,
Banaras Hindu University.
10. The Committee visited the Banaras Hindu University on 4th and 5th November, 1967 and discussed the objectives, research design and scope of the scheme, progress of work so far done and the question of integrating the project with the work of the Hindi department with Dr. B.S. Vyas and Dr. S.P. Singh, Deputy Directors of the scheme who are also permanent members of the Hindi Department. Two volumes, one dealing with the phonological aspects of Hindi language and the other with the socio-literary background of Hindi literature and a survey of apabhraṅsa, adikal and sant poetry were reported to be ready for publication.

11. The Committee examined some portions of the two manuscripts and was greatly disappointed to find that this project which was

approved in the second Plan and taken up for implementation in January 1962 had been lingering on without being completed according to the original time-schedule and in spite of several extensions granted from time to time. The University had planned for preparation of six volumes - 3 in each of the two sections. Only two volumes have been completed so far and these are being edited and revised in the light of suggestions made in the reports of Dr. Hazari Prasad Dwivedi, Head of the Hindi Department, Panjab University and Prof. P. B. Pandit, Head of the Department of Linguistics, Delhi University. This work is expected to be completed by the end of March, 1968. The material for the Second volumes of each of the two sections has been collected to the extent of 50% in the grammar section and 75% in the history of literature section. No work has been done on the other volumes.

12. The two Deputy Directors connected with the scheme explained the various difficulties in the implementation of the scheme viz., the difficulty of recruiting and retaining well-qualified research assistants, the cumbersome procedures laid down by the university for procurement of books and other materials, uncertainty about the continuation of the project and usual disruptions in the work owing to research assistants leaving for more remunerative jobs.

13. The Committee examined in detail the various difficulties pointed out by the Deputy Directors and others in the successful implementation of the scheme. The main difficulty related to the appointment of the full complement of 16 research assistants sanctioned for the scheme. To begin with, only 6 research assistants were appointed, 3 for historical grammar and 3 for the history of literature, and they joined on 9th January, 1962. Some more research assistants were appointed in July, 1963. There were 13 Research Assistants working under the scheme during 1963-64, 1964-65 and 1965-66. The present number of research assistants employed by the University is 7.

The University representatives pointed out that the research assistants employed under the scheme did not have a high degree of competence for the specialised work they were required to do. Of the 7 present research assistants only one is a First-Class M.A., and all others are Second-Class M.As. in Hindi. One of them is a Second Class M.A. in Hindi with a First Class M.A. in Sanskrit. Two of the research assistants obtained less than 50% mark in their M.A. examination and are not eligible to be registered as Ph.D. scholars under the rules of the university. The remaining 5 research assistants are working for their Ph.D. degree. The Deputy Directors deplored the fact that some of the research assistants could not write two correct pages of Hindi. It is not clear how these people were employed and having been employed why they were allowed to continue if the Directors were not satisfied with their work. It is also not clear how such candidates have been enrolled for research work in the department.

Another difficulty related to the acquisition of books and manuscripts required for the project. Till recently, all books for the departments were ordered through the central library and this procedure involved considerable delay. Under the scheme there is a provision of Rs. 10,000 p.a. for T.A. and procurement of materials but the university has so far purchased only 158 books, 93 for the historical grammar section and 65 for the Hindi literature section. Some of these books were purchased recently.

The Committee feels that T.A. and procurement of materials should not have been combined under one budget head and that if the scheme is to be continued there should be an adequate provision - say Rs. 2,000 for the purchase of books and manuscripts and Rs. 1,000 for T.A. and field work for the remaining period of the scheme.

While recognising the difficulties inherent in a project of this kind, the Committee feels that there has been lack of planning and coordination in the execution of this project from the very beginning lack of clarity about its objectives and scope and some misunderstanding regarding the utilisation of grants sanctioned by the Commission for the project.

14. The terms of reference of the Committee included an examination of the question of integrating this project with the work of the Hindi department with effect from April 1, 1968. Accordingly, the Committee discussed this question in its various aspects with the members of the Hindi department. While the main advantage of integration would be that the work of the project could be carried on as a normal academic activity of the department, the Committee feels that owing to the specialised nature of work involved in this project it would not be advisable to dispense with the services of research staff till the four volumes in hand are prepared and ready for publication. It is also understood that the University is shortly appointing a Professor as the head of the Hindi department in which case it would be desirable not to disturb the present arrangements till the new head of the department has had an opportunity of putting the scheme on a sound footing.

15. The Committee is not satisfied with the manner in which this project was conceived and implemented during the last six years. The project was perhaps very ambitious. As originally conceived, the work might have undoubtedly been of great academic value but it appears that serious and sustained efforts were not made and effective use was not made of the funds sanctioned by the Commission for the purpose. We share the judgement of experts who have evaluated the project from time to time,

The evaluation committee appointed by the Commission to assess the work done under the scheme had observed that -

"an examination of some portions of the two volumes already completed ... needed careful revision. Some of the statements could be questioned and it appears that portions of the work had been hastily drafted. It would be desirable if two or three experts in linguistics were invited by the university for a few days to go through the manuscript and suggest the necessary changes."

Prof. P. B. Pandit, Head of the Department of Linguistics, Delhi University, made the following comments on the Historical Grammar of Hindi language:

"On the whole an authentic collection of historical evidence from early Hindi to modern Hindi will be a useful contribution to the historical study of Hindi Language and hence the significance of the present project. It should, however, be noted that the undue proliferation which we noticed in the first volume should be drastically curtailed and irrelevant data should be eliminated. The editors have accepted our suggestions."

The observations of Dr. Hazari Prasad Dwivedi, Tagore Professor of Indian Literature, Panjab University, on the History of Indian Literature are re-produced below:

"From the examination of this volume, I found that the scheme is being carried out faithfully. There is, however, an improper emphasis in the original scheme on socio-cultural background of Hindi Literature. Though it is undoubtedly an important aspect of the historical analysis of any literature, it is hardly necessary to include this aspect in this sort of work, the object of which is to re-examine the existing material of Hindi literature. Therefore, I feel that more emphasis should be laid on facts of literature than on its socio-cultural background.

In the present volume a substantial portion has been devoted to surveying briefly the history of Indian Literature and Socio-cultural background of Hindi Literature. But the main object of examining the existing material has been curtailed. A vast literature of Sant (Nirgun) Hindi poetry from Panjab, Gujarat, Bihar, Rajasthan, Sindh and even from Nepal has recently come to light which must find its place in this volume. Instead of writing a sketchy survey of Indian Literature, a survey of search of manuscripts and other such materials in different regions by various learned societies and scholars would have been more useful. I found from the list of books consulted that many important books, journals and theses etc., have not been consulted. I can send a list of such materials later on; but if the University could send the Deputy Director to Chandigarh, this matter can be expedited."

16. The present committee was told that the volume dealing with the history of literature was more in the nature of a survey than an exploration of source materials. This is a major deviation from the original design and, by and large, a duplication of the histories already available e.g. History of Hindi Literature by Pt. Ram Chandra Shukla and the history brought out by the Nagri Pracharni Sabha.

The main anxiety of the Committee is to ensure that the best possible use is made of the work already done viz., the first two volumes that have already been completed and the material collected for the third and fourth volumes to the extent of 50 to 75 per cent. The Committee, therefore, suggests that the first two volumes which have already been prepared, one relating to historical grammar and the other to the history of Hindi literature, should be referred to experts in the concerned areas. The experts to whom the volumes are referred should be paid suitable remuneration for editing the volumes. The second volume of the two sections could be completed by September, 1963, which means an extension of six months over the period already agreed to by the Commission. The following facilities may be sanctioned for the unit for the remaining period upto September, 1968:

Two Deputy Directors	Allowance of Rs. 200 p.m.
16 Research Assistants	In the scale of Rs. 300-25-350 with normal allowances of the university.
Books and Manuscripts	Rs. 2,000
T.A. and Field Work	Rs. 1,000

Extension upto September 1968, may be granted after obtaining a specific assurance from the Director of the project that the remaining two volumes would be completed by the stipulated date. After completion, these volumes should also be referred to experts for suitable editing.

The financial implications of the above recommendation for the period January to September, 1968 including remuneration for editing at the rate of Rs. 1,000 per volume would be Rs. 82,600. The University may be requested to adjust this amount within 70 per cent of its Fourth Plan allocation. It is also recommended that the U.G.C. should devise a machinery for screening research projects of this nature and for watching the progress of various research projects under implementation in the universities.

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UNIVERSITY GRANTS COMMISSION

Meeting :
Dated 6th March, 1968.

Item No. 12: To consider the report of the Committee appointed by University Grants Commission to review the working of the Hyderabad Metropolitan Project of the Osmania University.

The Commission, at its meeting held on August 4, 1965 considered the proposal of the Osmania University to establish, in collaboration with the Institute of Asian Studies, a Centre of Urban Research with particular reference to Metropolitan Hyderabad and agreed to provide, on a sharing basis of 50 : 50, the following staff for the project during the Third Plan period:

- (i) One Professor of Urban Geography - Director of the Project.
- (ii) Three Lecturers - one each for Urban Geography, Sociology and Urban Economics.
- (iii) Six Senior Research Assistants.
- (iv) Two Cartographers
- (v) Two Computers.

The Project was organised in three phases viz.,

- (a) Formulation of its goal and objectives and collection and compilation of relevant data from various sources.
- (b) Conduct of specific research studies.
- (c) Processing and analysis of the data and finalisation of the report.

By the end of the Third Plan, the first two phases of the project were nearly completed. Work on the third phase has started and the project report is expected to be ready by August, 1968.

The Osmania University desired to develop this project further and to establish a department of Urban Studies to conduct research on urbanisation problem of Andhra Pradesh, admit research students for the M.Litt. and Ph.D. degrees in urban studies, conduct postgraduate diploma courses in urban and regional planning, establish a statistical cell for collection and processing of data and render technical advice to the State Government on urban development problems at a cost of Rs. 15.29 lakhs. The Fourth Plan Visiting Committee discussed this proposal with the University but felt that the question of extending the scope of the project could be considered at a later stage. The Committee, however, by an expert committee recommended that the Project may continue for one more year i.e. up to March 31, 1968.

The University Grants Commission appointed a Committee consisting of the following to evaluate the working of the project and its continuance beyond March 31, 1968:

1. Prof. P.N. Dhar,
Director,
Institute of Economic Growth,
Delhi.
2. Prof. Mohd. Shafi,
Head of the Department of Geography,
Aligarh Muslim University,
Aligarh.

3. Dr. J.N. Kaul,
Development Officer,
University Grants Commission.

The Committee visited the University from 14th to 16th January, 1968. The report of the Committee is attached (Annexure I). The main observations and recommendations of the Committee are as under:

- (a) The Hyderabad Metropolitan Project has, by and large, done good work and the result of this study would be helpful to planning authorities and might provide a base for similar studies elsewhere.
- (b) The Departments of Economics, Sociology and Geography of the Osmania University could cooperate in offering an inter-disciplinary course in Urban Studies as an optional paper at the postgraduate level.
- (c) It would be possible and desirable to make use of the findings of these studies for Orientation courses to town and country planners and others working in related fields so that the expertise built up is used as widely as possible.
- (d) While there would be a definite advantage in extending the scope of the present project, it is doubtful whether there would be any advantage in creating a separate department of urban studies. If the proposed Centre for urban studies has to grow and develop, it has to find an abiding interest in the system of the university and should be able to draw on the resources of related disciplines like Geography, Economics and Sociology.
- (e) The present Hyderabad Metropolitan Project may be merged with the Department of Geography from 1st April, 1968 and a Centre for Urban Studies may be set up as an integral part of this department under the present Director. The two lecturers (one in Sociology and the other in Economics) working on the Project may be transferred to their respective departments, as soon as possible and in any case by the beginning of the next academic session. Thus they would be able to participate in the normal activities of their departments and also help the Centre in its teaching and research programmes.
- (f) Since the support of the Asia Foundation is no longer available to the University, it is recommended that the Commission's assistance for the current year (1967-68) may be raised to 100% from the present 50% towards the approved expenditure of Rs. 85,800 per annum on teaching and non-teaching staff. No extra allocation would be necessary for this as there is already a provision of Rs. 78,000 for the purpose in the Fourth Plan allocation of the university.
- (g) The following staff may be provided for establishing the proposed Centre on Urban Studies in the Department of Geography:

	<u>Cost per year</u>
3 Lecturers, 1 each in the Department of Geography, Economics and Sociology.	Rs. 21,600
3 Senior Research Assistants at Rs. 400 each.	Rs. 14,400
1 Cartographer @ Rs. 210-425.	Rs. 7,200
1 Statistical Assistant @ Rs. 180-350	Rs. 3,000
	Rs. 46,200

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A provision of Rs.5,000 per annum for inservice programmes and publication of research materials and a contingent grant of Rs.2,000 per annum may also be given for the smooth running of the Centre.

The total cost of this scheme from 1st April, 1968 to 31st March, 1971 is estimated to be Rs.1,59,600. The Committee has recommended that the Commission's assistance may be given on a 100 percent basis in accordance with the policy regarding sharing of expenditure on projects related to postgraduate studies and research.

The matter is placed before the Commission for consideration.

E.O(H)/D.O(H)

Report of the Committee appointed by the University Grants Commission to review the working of the Hyderabad Metropolitan Project at Osmania University.

During the Third Plan period, the Osmania University proposed to establish, in collaboration with the Institute of Asian Studies, a Centre of Urban Research with particular reference to Metropolitan Hyderabad. The purpose of the proposed Centre was to make a scientific appraisal of the planning and development problems of Metropolitan Hyderabad with a view to suggesting a strategy for its development and providing a scientific base to the State Town Planning Agency for framing their planning proposals. Such a study, it was hoped, would provide a better appreciation of the forces underlying the growth and development of an emerging metropolis in India.

The Commission considered this proposal at its meeting held on August 4, 1965 and agreed to provide, on a 50% sharing basis, the following staff for the project during the Third Five Year Plan:

1. One professor of Urban Geography, the Director of the Metropolitan Project.
2. Three lecturers, one each for Urban Geography, Urban Sociology and Urban Economics.
3. Six Senior Research Assistants.
4. Two Cartographers
5. Two Computers.

Although the project came into existence with the appointment of its Director in March 1965, it did not get going until the beginning of September 1965 because of the non-availability of the technical staff. This period was, however, utilised in the organisation of the project office and library, collection of data, preparation of base maps, orientation of the technical staff and finalising the scope and strategy of the project. The project work was organised in three phases namely: (1) formulation of its goals and objectives and collection and compilation of data from various sources (2) conduct of specific research studies (3) processing and analysis of the data and finalisation of the report. By the end of the Third Plan period, the first two phases were more or less complete. The project has now entered the Third phase; the final report is expected to be ready by August 1968.

During the Fourth Plan period, the Osmania University desired to develop this project further and to establish a department of Urban Studies to conduct research on urbanisation problem of Andhra Pradesh, admit research students for the M.Litt. and Ph.D. degrees in urban studies, conduct postgraduate diploma courses in urban and regional planning, establish a statistical cell for collection and processing of data and render technical advice to the State Government on urban development problems at a cost of Rs.15.29 lakhs. This proposal was placed before the Fourth Plan Visiting Committee which felt that the proposal for establishing a separate department for urban studies could be considered at a later stage after the result of the work on the present project had been examined and assessed. The Committee, however, recommended that the project may continue for one additional year i.e. upto March 31, 1968 in order that the work begun may be brought to a successful conclusion. Subsequently, the Vice-Chancellor, Osmania University, proposed that the U.G.C. may appoint a review committee and advise the university in this behalf. In pursuance of this suggestion

a committee consisting of the following was appointed to evaluate the working of the project and its continuance beyond March 31, 1968:

1. Prof. P.N. Dhar,
Director,
Institute of Economic Growth,
Delhi.
2. Prof. Mohd. Shafi
Department of Geography,
Aligarh Muslim University,
Aligarh.
3. Dr. J.N. Kaul,
Development Officer,
University Grants Commission.

The Committee visited the University from 14 to 16th January, 1968. The report of the Committee is as follows:

We had before us the proposal of the Osmania University to develop the present Hyderabad Metropolitan Project into a Centre for Urban Studies whose objectives would be the following:

- (a) to orient academic studies and research in the university to the dynamic problems of society and to study them on an inter-disciplinary basis.
- (b) to promote studies on urbanisation in India and to conduct empirical studies to provide better understanding of the basic processes and patterns of urban development in India; and
- (c) to conduct a training course for those who seek employment in Town Planning and Municipal Bodies in India.

The cost of this project over a period of five years was estimated to be Rs. 11,76,000. We were, however, given at the university a revised proposal having the same objectives, the cost of which for a period of five years amounted to Rs. 6,94,500.

We discussed the proposal with the Vice-Chancellor. He gave us the background of the Hyderabad Metropolitan project and of the assistance that was initially available to the project from the Asia Foundation. The Vice-Chancellor suggested that the Committee might consider (a) the desirability of creating a separate department in the university for developing urban studies, (b) whether this project could best be implemented by being an integral part of one of the existing departments, (c) whether the proposed Centre, when established, should confine its activities only to research or undertake teaching also and (d) whether there would be any specific advantage in having a course on urban studies outside the main related disciplines like Geography, Economics and Sociology. It was also understood from the Vice-Chancellor that the university would not be able to accommodate expenditure on continuation of the project within the Fourth Plan allocations of the university.

We visited the Hyderabad Metropolitan Project and were given an opportunity of reviewing with the Director the work done so far. The various studies conducted so far in regard to (i) the spatial patterns of functional concentration and their impact on the social and economic structure of Metropolitan Hyderabad (ii) demographic and economic growth trends and their inter-relation with the infrastructural facilities and (iii) policy implication of city - region relationship, were explained to us. Eleven out of the 12 planned surveys have been completed and the data collected have been presented in maps, charts and graphs. We could not, however, see the actual data collected because it was not readily available, but the maps, graphs and charts seemed to be impressive.

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We were told that the recommendation of the project regarding the delimitation of the boundary of the Hyderabad Metropolitan District and the creation of a Metropolitan development authority have been accepted in principle by the State Government. It was also understood that the Hyderabad Municipal Corporation was examining the proposal of the Hyderabad Metropolitan Project to adopt a growth-incentive taxation policy and the State Government was also considering the recommendation of the Project for the creation of greater job opportunities in the socially depressed areas of the city. We were also informed that many of the recommendations of the Project were being incorporated by the Town Planning Department of the State in the planning proposal for Metropolitan Hyderabad.

It was clear to us that the Hyderabad Metropolitan Project had, by and large, done good work and that the results of this study would be helpful to planning authorities and might provide a base for similar studies elsewhere. Fruitful possibilities exist to expand the scope and reorient the goals of the present project to permit a depth-study of urbanization in a developing country like India. The State of Andhra Pradesh and its growing urban areas could provide the focal point for comprehensive urban studies and these investigations could later be extended to cover metropolitan cities in the neighbourhood. The departments of Economics, Sociology and Geography could cooperate in offering an inter-disciplinary course in Urban Studies as an optional paper at the Post-graduate level. We also visualize the possibility and desirability of making use of the findings of these studies for orientation courses to town and country planners and others working in related fields so that the expertise built up is used as widely as possible. The Director of the Project agreed that such courses may be given in the first instance only to inservice personnel.

While we agree that there would be a definite advantage in extending the scope of the present Hyderabad Metropolitan Project as indicated above, we doubt whether there would be any advantage in creating a separate department of urban studies. If the proposed Centre for urban studies has to grow and develop, it has to find an abiding interest in the system of the university and should be able to draw on the resources of related disciplines like Geography, Economics and Sociology. It is obvious that the proposed Centre cannot hope to command at any time the same facilities as are and will be available in these related departments. Even if it were possible to do so, there would be no particular advantage in duplicating facilities.

We, therefore, recommend that the present Hyderabad Metropolitan Project may be merged with the department of Geography from 1st April, 1968 and a Centre for urban studies may be set up as an integral part of this department under the present Director, who it is understood, is soon going back to this department. This will ensure continuity of guidance and direction. For the same reasons, we recommend that the two lecturers, one each in Sociology and Economics, at present working for the Project, may be transferred to their respective departments as soon as possible and in any case by the beginning of the next academic session. They would be a greater source of strength to the proposed Centre for urban studies from their departments where they will participate in the normal activities of the departments and also help the Centre in its teaching and research programmes.

The present approved staff of the Hyderabad Metropolitan Project consists of 1 professor, 3 lecturers, 6 senior research assistants, 2 cartographers and 2 computers. Approved expenditure on the staff is Rs. 85,800 p.a. and the Commission's assistance is available at 50% upto 31st March, 1968. We were informed that the support of the Asia Foundation is no longer available and that the University would not be in a position to contribute its matching share for 1967-68. We recommend that the Commission's assistance for the Current year (1967-68) may be raised to 100%.

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Sir, the major portion of the work on the Hyderabad Metropolitan Project has already been completed and the report is expected to be finalised by August 1968, it should not be necessary to continue to have the present staff upto that period. The nature of the work involved in setting up the proposed Centre for urban studies as envisaged by us and as agreed to by the Director would also not require the existing staff of the project. We, therefore, recommend that the following staff may be provided to the university for establishing the proposed Centre on Urban Studies in the Department of Geography:

	<u>Cost per year</u>
3 lecturers, 1 each in the Department of Geography, Economics and Sociology.	Rs. 21,600
3 Senior Research Assistants at Rs.400 each.	Rs. 14,400
1 Cartographer at Rs.210-425	Rs. 7,200
1 Statistical Assistant at Rs.180-350	Rs. 3,000
Total	Rs. 46,200

The University would require some assistance for organising inservice programmes and for publication of research materials. A provision of Rs.5,000 p.a. is recommended for this purpose. A contingent grant of Rs.2,000 p.a. may also be given for the smooth running of the Centre.

The total cost of this scheme from 1st April 1968 to 31st March 1971 is estimated to be Rs.1,59,600. Considering the fact that the support of the Asia Foundation is no longer available to the university towards this scheme, we recommend that the Commission's assistance may be given on a 100% basis. This would be in accordance with the policy of the Commission in regard to sharing of expenditure on projects related to postgraduate studies and research. In view of the good work done so far and the possibilities inherent in continuing the project, we recommend that the Commission's assistance for the proposed Centre may be provided outside the Fourth Plan allocation of the University.

We would like to thank the Vice-Chancellor, Osmania University and Dr. Manzur Alam, the Director of the Hyderabad Metropolitan Project, who gave us consideration and cooperation in our work. We are also thankful to Dr. P.J. Philip, Secretary, University Grants Commission, who was at Hyderabad and who gave us the benefit of his advice in the matter.

(SST)

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No.13; To consider a proposal from Gujarat University regarding additional grant for the construction of buildings for the Departments of Physics, Chemistry, Botany and Mathematics.

.....

In August 1961, the Commission on the recommendation of the Second Plan Visiting Committee approved Gujarat University's proposal to construct its Science Block to house the Departments of Physics/Chemistry/Botany and Mathematics with a built up area of 54,510 sq.ft. at an estimated total cost of Rs.13,36,000 inclusive of all services and fittings, UGC's share on 2/3rd : 1/3rd basis amounting to Rs.8,90,666.

The University Grants Commission has so far released Rs.8,90,000 on this account. But in 1966 the University reported to the Commission that the total cost had gone up considerably and sought the approval of the Commission for the increased total cost. After seeking a number of clarifications the university has now informed that the completion cost of the Science Block is Rs.16,80,719.99 and has also explained that the expenditure has exceeded the sanctioned estimated cost mainly due to:

- (a) the need for deeper foundation because of poor bearing capacity or the black cotton soil. The excavation, concrete and R.C.C. foundations were done from 8 ft. to 12 ft. depth.
- (b) the need for raising the foundation level surrounding the buildings, the site being in a low lying area.
- (c) providing extra porcelain sinks and three-way swan neck Lab. cocks.
- (d) by installing gas plant in a separate gas plant room.
- (e) market rates were higher than P.W.D. rates.

The estimated cost originally approved and the actual cost now revealed in the completion certificate are as under:

	<u>Approved estimate.</u>	<u>Actuals now reported in the completion certificate</u>
1. Civil Works	Rs. 10,11,680.00	Rs. 12,36,067.00
2. Internal water supply and sanitation including laboratory services plus internal electrification (including fans)	2,41,670.00	Rs. 1,81,728.84
3. Architect's fee including supervision charges.	82,783.00	Rs. 85,083.67
4. Furniture	(Rs.18,000 included under item 2 above)	1,78,840.48
	<u>Rs.13,36,133</u>	<u>Rs.16,80,719.99</u>
	or say	or say
	<u>Rs.13,36,000</u>	<u>Rs.16,80,720</u>

Thus the Gujarat University has incurred an additional expenditure of Rs.3,44,720.00, of which UGC share comes to Rs.2,29,813.

The matter is placed before the Commission.

E.O(Sc. I)/J.S(S)

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No.14: To consider the following proposals of the Gujarat Vidyapith:

- (a) for extending facilities in Ph.D. in other subjects of Social Sciences and Humanities.
- (b) assistance outside Fourth Plan allocation towards establishment of the Printing Press.

.....

Meeting:

Dated 6th March, 1968.

Item No. 14(a): To consider the proposal of the Gujarat Vidyapeeth for extending facilities in Ph.D. in other subjects of Social Sciences and Humanities.

The Gujarat Vidyapeeth, Ahmedabad, which is an institution deemed to be university under Section 3 of the U.G.C. Act has sought the approval of the University Grants Commission to provide facilities for Ph.D. in all subjects taught in the Vidyapeeth. An extract from the letter received from the Vidyapeeth is reproduced below:

"The Vidyapeeth has from the beginning held the view that it is neither desirable nor feasible to separate teaching and research facilities at the post-graduate level. Having opened the facilities for M.A. in various subjects, it is not possible to deny the students of the Vidyapeeth or other students to pursue Ph.D. studies in the Vidyapeeth by availing the facilities of its rich library. The provision for Ph.D. is limited to Gujarati for the present. The Vidyapeeth teachers and the students who do not possess the Doctorate have represented several times to the Vidyapeeth authorities that Ph.D. facilities should be available to them in all subjects taught at present and that may be taught hereafter.

The Vidyapeeth is very conscious about the imperative need for highly accredited persons for guidance work. The academic council of the Vidyapeeth recently considered this question and recommended that following persons should be invited to act as Hon. Visiting Professors for guidance to Ph.D. students.

	<u>Name</u>	<u>Subject</u>
1.	Shri L.R. Desai, Former Vice-Chancellor, Gujarat University.	Education
2.	Shri M.B. Desai, Professor Agriculture Economics, M.S. University of Baroda.	Rural Economics.
3.	Shri I.P. Desai, Former Professor of Sociology, M.S. University of Baroda.	Sociology.
4.	Shri T.B. Naik, Professor of Anthropology, Saugar University.	Social Anthropology.
5.	Pandit Sukhlalji & Shri Mangabhai P. Desai.	Gandhian Philosophy.

This list is drawn up by the Academic Council with a view to laying a strong foundation of high level research under the guidance of eminent persons. I mention this to explain the approach of the Vidyapeeth on this question.

The academic council will invite other eminent persons as and when necessary.

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In the light of above view, I hope the U.G.C. will welcome the proposal of the Vidyapith for extension of Ph.D. facilities for all subjects taught in the Vidyapith.

It may be noted that this will not require separate financial provision on this account."

The Vidyapith was declared to be a deemed university under Section 3 of the UGC Act with effect from July, 1963 for a period of three years in the first instance in respect of bachelor degree courses provided by it in Social Sciences, Tribal Welfare and teachers' training. On the recommendation of the Third Plan Visiting Committee, the Vidyapith started Post-graduate department in Hindi, Gujarati, Rural Economics and Social Anthropology from June, 1965 with assistance from the U.G.C. In July, 1966, the Commission accepted the proposal of the Gujarat Vidyapith for extension of the scope of recognition granted under Section 3 of the UGC Act to cover the Ph.D. degree in Gujarati.

The Visiting Committee appointed by the Commission to examine the Fourth Plan proposals of the Vidyapith also considered their proposal for extension of facilities for Ph.D. work in all departments. An extract from the report of the Visiting Committee is reproduced below:

"The Vidyapith also proposed extension of facilities for Ph.D. work in all departments. It was pointed out that there was a keen desire in students of the Vidyapith and other universities to take up doctorate work in the Vidyapith because of its own library and quiet atmosphere. Further the facilities for Ph.D. in the departments would greatly help and strengthen the quality of teaching and research in the departments. The Committee however, felt that it was too early for the Vidyapith to take up Ph.D. work in all departments and for the time being except in the department of Gujarati the Vidyapith may enrol only the teachers of the Vidyapith for the Ph.D. till the departments are fully developed."

The matter is placed before the Commission for consideration.

E.O(CD)/J.S(A)

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UNIVERSITY GRANTS COMMISSION

Meeting :
Dated 6th March, 1968.

Item No. 14(b): To consider the proposal of the Gujarat Vidyapith for giving assistance outside Fourth Plan allocation towards establishment of the Printing Press.

.....

The recommendation made by the Estimates Committee in their 102nd Report on the working of the University Grants Commission that 'every university should have a printing press of its own and these printing presses should be run on commercial lines and every endeavour should be made to bring out low priced publications for the students and the public', was communicated to all the Universities for appropriate action. The Gujarat Vidyapith has requested the Commission to give financial assistance towards the establishment of a printing press. In this connection it may be stated that the Commission has been assisting the universities on a sharing basis of 2/3 : 1/3 of the ceiling of Rs.1,81,000 (Rs.1,21,000 for machinery and equipment and Rs.60,000 for building). The Vidyapith has expressed its inability to accommodate the project within 70% of the Fourth Plan allocation, since the minimum requirements of the new departments are hardly covered within that amount. The Vidyapith has, therefore, requested the Commission to approve the proposal for the establishment of a printing press outside 70% of the Fourth Plan allocation. A copy of the letter received from the Gujarat Vidyapith in this regard is attached as appendix I,

The matter is placed before the Commission.

E.O(SS)/D. (SI)

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Appendix I to Item No. 14(b)

Copy of letter No. 1583/67-68 dated 6th January, 1968
from the Registrar, Gujarat Vidyapith to the Secretary
University, Grants Commission, New Delhi.

Subject: Establishment of Printing Press at Gujarat Vidyapith

With reference to your letter No. F. 20-37/67 (CDN/SS) of 14th December, 1967 regarding the establishment of Printing Press at the Gujarat Vidyapith, I am to state that it is impossible to accommodate the proposal for the establishment of a printing press within the 70% of the Fourth Plan allocation. Even the minimum requirements of the new departments are hardly adequately covered with the 70% of the allocation. This does not leave any room for accommodating any new scheme in this allocation. I, therefore, request you to kindly move the Commission to consider this proposal of the Vidyapith outside the 70% of the Fourth Plan allocations, in view of the proposed large scale undertaking of the Vidyapith for production of literature in the regional language to meet the higher education needs in the subjects of social sciences and humanities as well as the needs of extension work for spreading knowledge for the purpose of continuing education of common men. I hope the Commission will appreciate the Vidyapith's need in this matter.

I shall be grateful if you kindly consider our proposal in this light and let us have your favourable decision at your earliest convenience.

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968

Item No. 15. To consider the proposal of the Aligarh Muslim University for an additional grant for the installation of a lift in the Arts Faculty building.

.....

The Aligarh Muslim University has approached the Commission for provision of a lift, at an estimated cost of Rs.50,000 in the multi-storeyed Arts Faculty building which has been completed at a cost of Rs.13,31,907.70 against the approved cost of Rs.13,59,902. The University has stated that part of the cost of lift installation would be met out of the savings of the approved cost of the building and the balance of about Rs.22,000 may be sanctioned by the Commission as an additional grant for the purpose.

The building of the Arts Faculty has three storeys, viz., the ground floor, first floor and second floor. The University has stated that the provision of a lift is necessary as some of the older members of the staff and a few others find it difficult to climb the stairs owing to health reasons.

It is for consideration if the proposal of the University for installation of a lift may be accepted on condition that the estimated expenditure of Rs.50,000 will be accommodated by the University within 70% of its Fourth Plan allocation.

The matter is placed before the Commission.

E.O.(H)/DO.(H)

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 16: To consider the request of Jamia Millia Islamia, New Delhi for financial assistance towards publication of proceedings of the Seminar on Historians of Medieval India.

The Jamia Millia Islamia, New Delhi organised a five day seminar on "Historians of Medieval India" during January 1966 and incurred an expenditure of Rs.7861.20 out of a grant of Rs.16,000 made available by the Commission. The Jamia Millia later approached the Commission to utilise part of the unspent balance for meeting the publication costs of the proceedings of the seminar and for payment of remuneration to the contributors. The Commission, under its scheme of seminars, summer schools etc., has been giving limited assistance to universities for publication of proceedings of learned seminars and symposia for distribution to interested scholars and institutions. No assistance is generally provided for bringing out priced publications under the scheme. In view of this the Jamia Millia was informed that it might undertake the publication without seeking the Commission's assistance. The Jamia Millia has now intimated that, the Commission's assistance would be necessary because of the restricted demand for this publication and that it would be prepared to divert the royalty income for meeting part of the publication cost. The Jamia Millia has also requested the Commission for permitting to utilise Rs.5,000 for meeting a part of the publication costs and Rs.3,000 as honorarium to the contributors. In this connection it may be noted that the payment of honorarium for this kind of work is not regarded as an admissible item of expenditure under the scheme. Since the Jamia Millia has already printed the proceedings, it is for consideration whether it may, as a special case, be permitted to utilise the unspent balance towards meeting the publication costs and payment of remuneration to the contributors.

The matter is placed before the Commission.

E.O(SI)/D.O(SI)

Meeting:
Dated 6th March, 1968

Item No. 17: To consider the proposals received from Kerala University for development of Post-graduate Science Departments in the affiliated colleges.

At its meeting held on 2nd August, 1967, the Commission had desired that "the question of giving assistance for the development of postgraduate studies in the colleges affiliated to Kerala University may be further discussed with the University". This matter has recently been discussed with the University authorities. It is suggested that the proposals received from different colleges of the Kerala University may be considered in the light of the following criteria.

1. Such of the colleges as were not assisted in the Third Plan for development may be given priority over other colleges.
2. Such of the Departments as were not assisted in the Third Plan for development may be given priority over other Departments which received assistance during the Third Plan period.
3. As far as possible, assistance may not be provided for the development of postgraduate departments in the same subject in more than one college in the same locality.

Name of College and Introduction.	Total Expenditure on the Recommendation for Fourth Plan proposals (in Rupees)	period (UGC's share) in Rs.
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1. Colleges that were not assisted during Third Plan period.

<p>(a) <u>Union Christian College, Alwaye.</u> The College was established during the year 1921. In the year 1958, the Department of Physics got affiliation and the remaining two departments i.e. Mathematics and Botany were affiliated in the year 1965. The postgraduate enrolment at present is:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">Mathematics</td> <td style="width: 10%;">-</td> <td style="width: 10%;">11</td> </tr> <tr> <td>Botany</td> <td>-</td> <td>8</td> </tr> <tr> <td>Physics</td> <td>-</td> <td>39</td> </tr> </table>	Mathematics	-	11	Botany	-	8	Physics	-	39	<p>The proposal of the college requires an expenditure amounting to Rs. 3,34,100 for the development of post-graduate studies in all the three departments as detailed below:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Maths.</td> <td style="width: 10%;">1,05,000</td> <td style="width: 10%;">(Bldg. Equip. and books)</td> </tr> <tr> <td>2. Botany</td> <td>1,41,000</td> <td>do</td> </tr> <tr> <td>3. Physics</td> <td>88,100</td> <td>Equip. & Books.</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>3,34,100</td> </tr> </table>	1. Maths.	1,05,000	(Bldg. Equip. and books)	2. Botany	1,41,000	do	3. Physics	88,100	Equip. & Books.	Total		3,34,100	<p>After scrutinising the proposals of the college and taking into consideration the existing pattern of assistance, the following grants are recommended:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Maths.</td> <td style="width: 10%;">50,000</td> </tr> <tr> <td>2. Botany</td> <td>75,000</td> </tr> <tr> <td>3. Physics</td> <td>60,000</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>Rs. 1,85,000</td> </tr> </table>	1. Maths.	50,000	2. Botany	75,000	3. Physics	60,000	Total		Rs. 1,85,000
Mathematics	-	11																														
Botany	-	8																														
Physics	-	39																														
1. Maths.	1,05,000	(Bldg. Equip. and books)																														
2. Botany	1,41,000	do																														
3. Physics	88,100	Equip. & Books.																														
Total		3,34,100																														
1. Maths.	50,000																															
2. Botany	75,000																															
3. Physics	60,000																															
Total		Rs. 1,85,000																														

(b) Mar Athanasius College, Kothamangalam

<p>The college was established during the year 1955 and the departments of Maths and Physics got affiliations in the years 1965 and 1966 respectively. The postgraduate enrolment at present is as follows:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Maths.</td> <td style="width: 10%;">20</td> </tr> <tr> <td>2. Physics</td> <td>6</td> </tr> </table>	1. Maths.	20	2. Physics	6	<p>The proposals involve an expenditure of Rs. 3,78,678 for the purchase of books, equipments and construction of buildings for the development of postgraduate studies as detailed below:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Maths.</td> <td style="width: 10%;">Rs. 80,584</td> <td style="width: 10%;">(Bldg & Books)</td> </tr> <tr> <td>2. Physics</td> <td>Rs. 2,98,094</td> <td>(Bldg. Equip. & Books)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>Rs. 3,78,678</td> </tr> </table>	1. Maths.	Rs. 80,584	(Bldg & Books)	2. Physics	Rs. 2,98,094	(Bldg. Equip. & Books)	Total		Rs. 3,78,678	<p>The proposal has been examined in detail and the following grants are recommended:-</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Maths.</td> <td style="width: 10%;">40,000</td> </tr> <tr> <td>2. Physics</td> <td>1,00,000</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>Rs. 1,40,000</td> </tr> </table>	1. Maths.	40,000	2. Physics	1,00,000	Total		Rs. 1,40,000
1. Maths.	20																					
2. Physics	6																					
1. Maths.	Rs. 80,584	(Bldg & Books)																				
2. Physics	Rs. 2,98,094	(Bldg. Equip. & Books)																				
Total		Rs. 3,78,678																				
1. Maths.	40,000																					
2. Physics	1,00,000																					
Total		Rs. 1,40,000																				

(c) Mar Thoma College, Tiruvella

<p>The College was established in the year 1952 and the Department of Botany got the affiliation during the year 1956 for postgraduate studies.</p>	<p>The proposal of the College requires a sum of Rs. 2,23,374 for the development of post-graduate study in the Department of Botany as detailed below:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">1. Building</td> <td style="width: 10%;">Rs. 1,10,870</td> </tr> <tr> <td>2. Equipment</td> <td>" 74,800</td> </tr> <tr> <td>3. Furniture</td> <td>" 3,000</td> </tr> <tr> <td>4. Books</td> <td>" 20,000</td> </tr> <tr> <td>5. Staff</td> <td>" 14,704</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>Rs. 2,23,374</td> </tr> </table>	1. Building	Rs. 1,10,870	2. Equipment	" 74,800	3. Furniture	" 3,000	4. Books	" 20,000	5. Staff	" 14,704	Total		Rs. 2,23,374	<p>The proposal has been examined in detail and as per the usual practice an amount of Rs. 75,000 is recommended for all the items.</p>
1. Building	Rs. 1,10,870														
2. Equipment	" 74,800														
3. Furniture	" 3,000														
4. Books	" 20,000														
5. Staff	" 14,704														
Total		Rs. 2,23,374													

Name of the College and introduction	Total expenditure on the proposals(In Rupees)	Recommendation for Fourth Plan period(UGC's share)(In Rupees)
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(d) Catholicate College Pathanamthitta

The College was established in the year 1952. The Botany Department got the affiliation during 1966 for postgraduate studies.

The proposal requires a sum of Rs. 2,16,300 for the development of post-graduate study in the Department of Botany as detailed below:

1. Building	Rs. 1,81,300
2. Equipment	" 20,000
3. Furniture	" 5,000
4. Books	" 10,000
Total	Rs. 2,16,300

A grant of Rs. 75,000 is recommended for the department of Botany for all the items.

II • Colleges whose departments were not assisted during Third Plan.

(e) Shree Narayana College, Quilon

The College was established during the year 1948 and its department of Maths. and Zoology got the affiliation during the years 1963 and 1964 respectively. The post-graduate enrolment at present is as below:

Zoology	...	22
Maths.	...	11

The proposal involves an expenditure of Rs. 1,26,507 for the development of post-graduate studies in the departments of Maths. and Zoology as detailed below:

1. Maths.	
Equipment	Rs. 24,500
Books	
2. Zoology	
Equipment	Rs. 57,300
Books	Rs. 34,707
Staff	Rs. 10,000
Total	Rs. 1,26,507

The proposal has been examined in detail and an amount of Rs. 60,000 is recommended to the College as detailed below:

Maths.	Rs. 10,000
Zoology	" 50,000
Total	Rs. 60,000

The Chemistry Department was assisted in Third Plan.

(f) St. Thomas College Palai

The College was established during the year 1960 and the Department of Physics got the affiliation for postgraduate teaching during the year 1965. The postgraduate enrolment at present is 16.

The proposal of the College requires a sum of Rs. 2,62,000 for the development of post-graduate studies in Physics as detailed below:

1. Building	Rs. 87,000
2. Equipment & Furniture	Rs. 1,20,000
3. Books	Rs. 55,000
Total	Rs. 2,62,000

As per the existing rules an amount of Rs. 1,00,000 is admissible to the college for the purpose and the same is recommended.

The Departments of Botany, Statistics and Chemistry were assisted in Third Plan.

(g) C. M. S. College, Kottayam

The College was established during the year 1890 and its departments of Physics, and Botany got the affiliation during the year 1965. The postgraduate enrolment at present is as below:

Physics	...	24
Botany	...	8

The college has drawn up proposals amounting to Rs. 2,18,750 for the development of postgraduate studies in Physics and Botany as detailed below:

1. Physics	
Equipment	Rs. 75,000
Books	" 50,000
Total	Rs. 1,25,000
2. Botany	
Equipment	Rs. 60,000
Books	" 33,750
Total	Rs. 93,750
Grand Total	Rs. 2,18,750

The proposal of the college has been examined in detail and following grants are recommended:

Physics	75,000
Botany	50,000
Total	Rs. 1,25,000

The Departments of Maths. & Chemistry were assisted in Third Plan.

Name of the College and Introduction.

Total expenditure on the proposals (In Rupees)

Recommendation for Fourth Plan period (UGC's share) (In Rupees)

(h) St. Berchman's College Changanacherry.

The College was established during the year 1922. In the year 1964, the Department of Chemistry got affiliation and the other two departments i.e. Mathematics and Zoology were affiliated during the year 1965. Post-graduate enrolment at present is as below:

1. Chemistry	16
2. Maths.	15
3. Zoology	6

** The Deptts. of Physics & Botany were assisted in III Plan.

The college's proposal is for Rs. 3,56,728 for the development of postgraduate studies in Chemistry, Maths., and Zoology departments as detailed below:

1. <u>Chemistry</u>	Building	Rs. 49,000
	Equipment	" 75,650
	Books	" 25,000
	Total	<u>Rs. 1,49,650</u>
2. <u>Maths.</u>	Equipment	Rs. 10,000
	Books	" 55,000
	Total	<u>Rs. 65,000</u>
3. <u>Zoology</u>	Equipment	Rs. 1,12,615
	Books	" 29,463
	Total	<u>Rs. 1,42,078</u>
	Grand Total	<u>Rs. 3,56,728</u>

The proposal of the college has been examined in details and following grants are recommended to all purposes.

Chemistry	80,000
Maths.	30,000
Zoology	<u>60,000</u>
Total	<u>1,70,000</u>

(i) Christ College, Irinjalakuda

The College was established during 1958 and its department of Chemistry got the affiliation in the year 1966. The P.G. enrolment at present is 14.

The college requires a sum of Rs. 2,08,000 for the development of Postgraduate studies in Chemistry as detailed below:

1. Building	1,13,000
2. Equipment	50,000
3. Books	25,000
4. Staff	<u>20,000</u>
Total	<u>Rs. 2,08,000</u>

The proposal has been examined in detail and an amount of Rs. 1,00,000 is recommended.

(The Deptt. of Zoology was assisted in Third Plan)

III. Colleges Whose Departments were assisted during Third Plan.

(j) Farook College, Faroke

The college was established during 1948 and its department of Maths. got an affiliation in the year 1959. The P.G. enrolment at present is 21.

The college requires a sum of Rs. 67,000 for the development of postgraduate studies in Maths. as detailed below:

1. Books	64,000
2. Furniture	3,000
(Almirah for books)	
Total	<u>67,000</u>

The proposal has been examined in detail and an amount of Rs. 15,000 is recommended to the college.

(This department received assistance during III Plan (Rs. 35,000) which has been fully utilised).

If these proposals are accepted, the assistance to be provided to the above 10 colleges for development of 17 post-graduate Science departments would be (UGC's share) Rs. 10,45,000 as summarised below:

<u>Name of College</u>	<u>UGC Share as proposed for each department (Rupees)</u>
(a) Union Christian College, Alwaye	i) Maths. Department 50,000
	ii) Botany 75,000
	iii) Physics 60,000
(b) Mar Athanasius College, Kothamangalam	i) Maths. 40,000
	ii) Physics 1,00,000
(c) Mar Thoma College, Tiruvelia	i) Botany 75,000
(d) Catholicate College, Pathanamthitta	i) Botany 75,000
(e) Shree Narayana College, Quilon	i) Maths 10,000
	ii) Zoology 50,000
(f) St. Thomas College, Palai	i) Physics 1,00,000
(g) C.M.S. College, Kottayam	i) Physics 75,000
	ii) Botany 50,000
(h) St. Berchman's College, Changanacherry	i) Chemistry 80,000
	ii) Maths. 30,000
	iii) Zoology 60,000
(i) Christ College, Irinjalakuda	i) Chemistry 1,00,000
(j) Farook College, Faroke	i) Maths. 15,000
	Total <u>10,45,000</u>

The matter is placed before the Commission for consideration.

E.O(Sc.I)/JS(S)

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UNIVERSITY GRANTS COMMISSION
....

Meeting
Dated: 6th March 1968

Item No. 18 To consider the request of the Patna University for giving assistance towards revision of salaries of teachers appointed against posts created after the implementation of the scheme.
....

The University Grants Commission, at its meeting held on 7th October 1964 (Item No.28) agreed to the adoption of the Third Plan scales for the teachers in the Universities of Bihar. The Patna University implemented the revised scales for its teachers w.e.f. 1.7.1964 and has been receiving assistance from the Commission. At its meeting held on 5th October 1966 (Item No.17), the Commission decided that all new posts created after the implementation of the revised scales should be in the new scales of pay. The above decision of the Commission was communicated to the Patna University when it approached the Commission for financial assistance towards the salary revision of teachers appointed against the new posts created after the implementation of the scheme. The Patna University has again requested the Commission for assistance in this regard. The following reasons have been advanced by the University in this connection:

- (i) Since this condition was not intimated to the University at the time when it implemented the scheme, it was expected that the assistance would be available even for persons appointed against the posts created after 1st July 1964 according to the needs of the University.
- (ii) The State Government will pay only the matching share against the grants paid by the Commission. If the Commission does not assist the University in such cases the expenditure will have to be borne by the University. Since this was not known at the time of the implementation of the scheme no provision was made in the University budget to cover the additional expenditure. Thus, this will not only create a financial difficulty for the University but also a technical difficulty.
- (iii) The number of posts created after 1st July 1964 is small.

Relevant extracts from the letter received from the Patna University are given in the Annexure.

In this connection it may be stated that 46 teachers have been appointed by the University against the posts created after 1st July 1964. If the University's request is agreed to, the additional financial burden of the Commission will be of the order of about Rs.1 lakh for a period of 5 years.

The matter is placed before the Commission.

... E.O.(SS)/D.O.(SI)

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Annexure to Item No 18

Extracts of the letter No.Ac/10185 dated 3-12-67
from the Registrar, Patna University, to the
Secretary, University Grants Commission, New Delhi.

....

It may be stated here that according to conditions laid down by the University Grants Commission and the State Government, the entire additional cost of revision of pay of teachers in the University Grants Commission scale of pay has to be borne by the University Grants Commission and the State Government on 80% and 20% basis for the 1st Five Years from the date of implementation of the scheme. This is also in conformity with the general principles laid down in para. (9) of principles of fixation of pay of college teachers of Bihar, communicated to this University under University Grants Commission letter No.F.39-1/63(SS) dated the 11th December 1964. Thus the University Grants Commission is expected to pay 80% of the additional cost, even in the case of persons appointed against the posts created after 1st July 1964 according to the needs of the University.

The State Government will pay only the matching share of the grants to be paid by the University Grants Commission. In case University Grants Commission does not pay additional cost in such cases, it will have to be borne by the University. As this was not contemplated at the time of implementation of the scheme, no fund for the same has been provided in the University Budget to cover the additional expenditure. Besides this will not only have an adverse effect on its critical financial position but will also entail some technical difficulty.

Incidentally it may be stated here that the number of posts created after 1st July 1964 is small as will be evident from the list enclosed. Whatever new posts have been created have been created due to increased load of work, introduction of Honours teaching and increase of seats and for general development of the University under the University Grants Commission Third Plan schemes.

The scheme was implemented at this University during the period 1965-66 with retrospective effect from the 1st July 1964. The audit of the accounts for the year 1965-66 has been completed, but the audit report for the year in question has not yet been received. Copy of audited utilisation certificate will be furnished after the audit report is received.

....

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No.19: To consider the proposal of the Bihar Government regarding continuance of Commission's assistance towards revision of the salary scales of university and college teachers beyond the Third Plan.

The Commission at its meeting held on 6th and 7th December, 1967 (item No.11) (Annexure I) while considering the proposal of the Bihar Government regarding continuance of Commission's assistance towards revision of the salary scales of university and college teachers beyond the Third Plan, desired that the views of the Education Ministry be invited. The Government of India, Ministry of Education was accordingly requested to communicate its opinion in the matter.

The Ministry of Education has intimated that normally assistance for a plan project should cease at the end of the Plan. Further the State Government in this particular case, will be receiving assistance simulatenously from the U.G.C. in respect of Third Plan schemes and from the Government of India in respect of Fourth Plan schemes for the period from 1966-67 to 1968-69. The Ministry has further stated that it is for the Commission to take a decision in the matter. A copy of the letter received from the Ministry of Education in this regard is attached as Annexure II.

The matter is placed before the Commission for orders.

E.O.(SS)/D.O.(SI)

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Copy of note placed before the U.G.C, at its meeting held on 6/7th December, 1967 vide Item No.11

The Commission at its meeting held on 7th October, 1964 considered the report on the discussions held between the Chairman, University Grants Commission and the Education Minister, Bihar regarding the revision of salary scales of University and college teachers (item No.28) and accepted the proposal of the State Government towards the introduction of Central University scales for the teachers of the university departments and constituent colleges and the scales of Rs.500-1000 for the Principal and Rs.200-750 for Lecturers in the affiliated colleges with effect from 1.7.1964. It was also decided that the contribution of the Commission on the usual sharing basis would be made available up to the end of the Third Plan, in the first instance.

The State Government of Bihar has now requested the Commission to continue its assistance under the scheme beyond the Third Plan period i.e. for 5 years from the date of implementation viz., 1.7.1964. According to the State Government the Universities and colleges in Bihar are facing great hardship owing to the non-availability of Commission's assistance and if the Commission agrees to discontinue its assistance after 1.4.1966, the State Government will be put in a difficult situation. An English version of the letter received from the Government of Bihar is attached as Appendix I.

In this connection the following points are brought to the notice of the Commission.

- (a) The Bihar Government has decided to implement the Fourth Plan scales of pay for university and college teachers with effect from 1.4.1966, for which it would be receiving assistance from the Government of India on 80 : 20 basis.
- (b) The Bihar Government's request is thus, for the continuance of Commission's grant towards Third Plan scales of pay in addition to assistance for introduction of Fourth Plan scales from the Central Government.

The matter is placed before the Commission for consideration.

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Appendix I

Copy of letter No. 27G-1011-64-Education 1964 dated 29.9.67
from Shri M. Alam, Secretary to Government of Bihar, Education
Department Patna, to the Secretary, University Grants
Commission, New Delhi.

Sub: Implementation of UGC scales for college
teachers under the Second Plan - regarding

I am directed to say that the scales of pay which the U.G.C.
prescribed for the teachers of the colleges during the Third Plan
have been implemented in this State with effect from 1.7.1964. You
may kindly recall that it was not possible to implement the original
scheme of the U.G.C. in toto in this State. After a long discussion and
consideration, we received the final acceptance of the U.G.C. to the
revised scheme in October, 1964 and the revised scales were implemented
with effect from 1.7.1964. This matter was also discussed in detail by
the former Education Minister with the Chairman, UGC and the Chairman
UGC had assured that the Commission's assistance would be made available
for a period of 5 years, although formal sanction of the Commission
would be only for assistance upto the end of the Third Plan period.
During my last visit to Delhi, I had discussed this question with you
and I had requested that UGC may give assistance upto 30.6.1969 i.e.
for 5 years otherwise, the State Government would be put in a difficult
situation.

I, therefore, request you that the U.G.C. may kindly consider this
question and agree to give assistance in the Fourth Plan upto 30.6.1969.
Owing to the non-availability of UGC's assistance during the Fourth
Plan, the universities and colleges are facing great difficulty, and
hence I would request you to take an early decision in the matter.

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Annexure II to Item No. 19

Copy of letter No. F.1-1/68.U.I dated 31st January, 1968 from Shri R.S. Chitkara, Dy. Educational Adviser, Ministry of Education, New Delhi to Dr. R.D. Deshpande, Development Officer, University Grants Commission, New Delhi.

Kindly refer to the Commission's letter No. 39-1/63(SS) dated January 5, 1968 regarding continuing of U.G.C. assistance beyond Third Plan for revision of salary scales of University and College teachers in Bihar.

Normally assistance for a Plan project should cease at the end of the Plan. Further, in this particular case, the State Government will be getting assistance simultaneously from the U.G.C. in respect of Third Plan schemes and from the Government of India for Fourth Plan schemes for 1966-67, 1967-68 and 1968-69. However, in view of the assurance stated to have been given by the Chairman, U.G.C., it is for the Commission to take a decision in the matter.

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 20: To consider further the reference from the Sardar Patel University with regard to regional planning of higher education and specialisation in the interest of rational utilisation of resources

....

The University Grants Commission in its meeting held on 2nd November, 1967, considered a reference from Sardar Patel University with regard to planning of higher education and specialisation in the interest of rational utilisation of resources. The university had sought clarification whether they would be free to transfer and/or close a department or departments set up with assistance from U.G.C. in the interest of a rational and effective utilisation of available resources if such a contingency arose or whether the commitment that is given to the U.G.C. before starting the department to the effect that the department would be maintained after Commission's assistance ceases would bind the university to run the department. The Commission desired that specific proposals in this connection may be referred to the U.G.C. before a final decision is taken.

2. - The University has now intimated that they propose to transfer the following departments to the colleges indicated against each:

- 1. Philosophy } Nalini & Arvind Arts College
- 2. Sanskrit } Vallabh Vidyanagar.
- 3. Psychology M.B. Patel College of Education,
Vallabh Vidyanagar.

The number of students in the postgraduate departments in these subjects during 1967-68 is given below:

<u>Department</u>	<u>M.A. (Junior)</u>	<u>M.A. (Senior)</u>
1. Sanskrit	3	2
2. Philosophy	1	-
3. Psychology	8	2

The University has sought clarification as indicated in para 1 above. The university has also requested that the specific proposals referred to above may be considered by the Commission. In this connection the university has been requested to intimate as to how a department, which is not a viable unit in the university, would become so if it is transferred to a college.

The matter is placed before the Commission for consideration.

E.O.(CD)/J.S.(A)

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 21. To consider the request of the Varanaseya Sanskrit Vishwavidyalaya for additional grant of Rs. 5000/- for printing of brochures and proceedings etc. of the Conference entitled DARSHAN PARISHAD.

....

The Commission at its meeting held on 1st September, 1965 (item No. 22) decided that the maximum financial assistance that may be given to universities for organising conferences should not exceed Rs. 2500. In accordance with the above decision of the Commission, a grant of Rs. 2500 was paid to the Varanaseya Sanskrit Vishwavidyalaya for organising a conference entitled "Dar'shan Parishad" during December 1967. The Vice-Chancellor of Varanaseya Sanskrit Vishwavidyalaya has now approached the Commission for an additional grant upto Rs. 5000 in order to enable the Vishwavidyalaya to meet the expenditure on printing of brochures, programmes and proceedings etc. A copy of the letter received from the Vice-Chancellor in this regard is attached (appendix I).

The matter is placed before the Commission for consideration.

E.O.(SI)/D.O.(SI)

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Appendix I to Item No. 21

Copy of letter No. VC-929 dated 22nd December, 1967 from the Vice-Chancellor, Varanaseya Sanskrit Vishwavidyalaya, to Dr. D. S. Kothari, Chairman, University Grants Commission.

....

In response to the request made by me in my letter No. VC-751 dated September 25, 1967 (copy enclosed for ready reference). You were good enough to sanction an amount of Rs. 2,500 for which I am really grateful to you and the Commission. But as we are proceeding with the arrangements for holding this Conference, which commences tomorrow, we have had to incur an expenditure to the tune of about Rs. 4,000 on printing alone as we had to correspond with about two thousand scholars all over the country, sending them brochures, detailed notices and programme etc. In addition, we have all the expenditure on the arrangements including boarding and lodging of delegates, payment of minimum expenses to selected eminent scholars and so on. It is estimated that the expenditure on all these will be about Rs. 10,000. As you can well realise, the University cannot afford this expenditure from its own funds.

Complete proceedings and reports of the Darshan Parishad will be sent to you in due course to see the extent of the work done in this important Conference.

I would be grateful if you could kindly reconsider my request and sanction at least Rs. 5,000 more to this university to meet the expenses on this Darshan Parishad. I hope you will be pleased to understand and realise the need of this University in this behalf and send me an early favourable reply.

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Copy of D.O. letter No. VC.751 dated 25th September, 1967
from Shri Gaurinath Sastri, Vice-Chancellor, Varanaseya
Sanskrit Vishwavidyalaya, Varanasi to Dr. D. S. Kothari,
Chairman, University Grants Commission, New Delhi.

You will be pleased to hear that it is proposed to hold a four-day conference under the auspices of this Vishwavidyalaya on an all-India basis in the last week of December this year. The subject of the Conference will be the various systems of philosophy prevalent in India. This "Darshan Parishad" will be on the lines of the All India Philosophical Congress and the All India Oriental Conference. But whereas those conferences are usually held through the medium of English, the proposed Darshan Parishad will be the medium of Sanskrit, Pali and Prakrit and the invitees will be eminent scholars from all over India on the traditional lines. There will be six sections of this Parishad: Vendata, Nyaya, Bauddha-Darshan, Jain Darshan Sant Jeevan Darshan and Comparative Philosophy of the East and the West. There will also be two Seminars. Articles written by scholars will also be invited and each section will be presided over by the eminent experts in those systems of Philosophy.

In order to conduct this Parishad satisfactorily it is calculated that a minimum amount of Rs. 5,200 will be needed for publication of speeches and articles, to meet the expenses of boarding and lodging of the delegates, travelling allowance to sectional Presidents and other miscellaneous expenses. I would be grateful if this amount of Rs. 5,000 is kindly sanctioned and sanction conveyed to me at a very early date, as invitations have to be sent off very early.

As you know, it is difficult for most Sanskrit Pandits to attend the Parishad at their own expense on account of their comparatively poor financial conditions. It would enable them to attend the Parishad if some monetary help is given to the most deserving of them. For this purpose if a sum of Rs. 5,000 can be found by you, it would add to the success of the Conference and the results will be far reaching.

I would therefore be grateful for a grant of Rs. 10,200 or at least Rs. 5,200 accordingly as you may be pleased to view the proposal.

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UNIVERSITY GRANTS COMMISSION

Meetings
Dated 6th March, 1968.

Item No. 22 : To consider a manuscript for publication of a brochure on various Cultural Exchange Programmes by the University Grants Commission for implementation.

....

The Commission at its meeting held in February 1968 considered a report on the implementation of the Cultural Exchange Programmes (item 9) and desired that a manuscript on various Cultural Exchange Programmes by the University Grants Commission for implementation may be placed before the Commission at its next meeting.

The Cultural Exchange Programme is designed to promote cultural, scientific and technical cooperation between India and some interested foreign countries. Items on various cultural programmes, involving exchange of university level teachers and other scholars, are generally implemented by the University Grants Commission.

Cultural Exchange Programmes between India and the following countries are in operation at present (The year indicated against each country relates to the commencement of the programme).

1. U.S.S.R. (1962)
2. Poland (1964)
3. Yugoslavia (1964)
4. Hungary (1964)
5. East Germany (1964)
6. West Germany (1965)
7. Bulgaria (1965)
8. Czechoslovakia (1965)
9. Romania (1965)
10. U.A.R. (1965)
11. France (1966) being finalised.

Apart from exchange of teachers and scholars, academic publications, year books and scientific materials are also exchanged under the programmes.

Broadly, two categories of participants are invited in the programmes. First, consists of young scholars and teachers who are sent abroad for further training and research in the field of their specialisation for a period ranging from 6 - 24 months. The second category consists of teachers who visit important centres for study and research, establish contacts with their counterparts and deliver lectures or participate in seminars at their host institutions. The period of their visits generally varies from 2 - 12 weeks.

The financial assistance offered under the programmes varies from country to country. The host country generally provides hospitality while the sponsoring country pays for international air fare.

September- October and March - June are considered suitable for Indian teachers and scholars visiting the countries concerned and foreign participants prefer to visit Indian Universities during the winter season. Indian teachers under this programme are generally selected out of the nominations made by the Universities in this regard and the young scholars and scientists are invited to apply for participation under various training/research schemes. Selection of foreign participants is generally made the country concerned and their placement to various universities in India is arranged by the University Grants Commission.

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Since the University Board Commission took over the responsibility of implementing some of the items under the cultural exchange programmes in 1963-64, 53 Indian teachers/scholars have been sent abroad and 62 foreign teachers/scholars have visited India upto 31st December, 1967. A draft of a booklet containing information about the various cultural exchange programmes is attached as Appendix I.

The matter is placed before the Commission for consideration.

A.E.O.(G)/D.O.(T)

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CULTURAL EXCHANGE PROGRAMMES

GENERAL

The Cultural Exchange Programme is designed to promote cultural, scientific and technical cooperation between India and some interested foreign countries. The Government of India in the Ministry of Education enters into agreements for cultural exchange programmes with different countries with a view to promoting exchange of visits by scholars, scientists and other persons who help in strengthening of friendly relations between India and the countries concerned. The cultural exchange programmes contain several items relating to different fields and the Ministry of Education allocates such items for purposes of implementation to different organisations including the University Grants Commission. These programmes provide opportunities to academic personnel in India to establish channels of communication and consultation with their counterparts in foreign countries. Participants in these programmes have also an opportunity of understanding the culture of other peoples and of interpreting their own.

Items of various cultural exchange programmes involving exchange of university level teachers and other scholars are generally implemented by the University Grants Commission.

U.G.C.
PARTICIPATION

The following cultural exchange programmes are in operation between India and other countries. The year when the programme first began is indicated in brackets against each programme.

1. Indo-Bulgarian Cultural Exchange Programme (1965)
2. Indo-Czechoslovakian Cultural Exchange Programme (1965)
3. Indo-F.D.R. (West Germany) Cultural Exchange Programme (1965)
4. Indo-G.D.R. (East Germany) Cultural Exchange Programme (1964)
5. Indo-Hungarian Cultural Exchange Programme (1964)
6. Indo-Polish Cultural Exchange Programme (1964)
7. Indo-Romanian Cultural Exchange Programme (1965)
8. Indo-Soviet Cultural Exchange Programme (1962)
9. Indo-Yugoslavian Cultural Exchange Programme (1964)
10. Indo-U.A.R. Cultural Exchange Programme (1965)
11. Indo-French Cultural Exchange Programme (1966) (Under process)

The different items under the Cultural Exchange Programmes allocated to the University Grants Commission for implementation are indicated in Annexure I. Apart from exchange of teachers and scholars, academic publications, year-books and scientific materials are also exchanged under these programmes.

TYPES OF EXCHANGE.

Broadly, two categories of participants are included in the programmes. The first consists of young scholars and teachers, who are sent abroad for further training and research in the field of their specialisation for a period of six to twenty four months. The second category consists of teachers who visit important centres of study and research, establish contacts with their counterparts and deliver lectures or participate in seminars at their host institutions. The period of their visits varies from two to twelve weeks.

FINANCIAL TERMS FOR THE NOMINEES.

Financial assistance offered under the programme varies from country to country. The host country generally provides hospitality, while the sponsoring country pays international air fare (economy class) to the selected participants. The University Grants Commission meets the cost of international travel of those Indian teachers who are sponsored by it under these programmes. Expenditure on lodging, boarding conveyance, etc. in the host country is met by the Government of that particular country. The Commission provides assistance for lodging, boarding, transport and internal travel of the foreign participants during their stay in India in addition to an allowance of Rs.10/-per day.

There are, however, different financial terms for post-graduate scholars and teacher-trainees going abroad. In certain cases, the Commission also pays for the training costs of the trainees.

SUITABLE DATES FOR VISITS,

September-October and March-June are considered suitable for Indian teachers and scholars visiting the countries concerned and foreign participants prefer to come to Indian Universities during the winter season.

PROCEDURE FOR SEEKING NOMINATIONS/APPLICATIONS,

A. Nomination of Teachers

Teachers who wish to participate in the Cultural Exchange Programmes are not required to send any application to the Commission. Nominations for this purpose are invited in the prescribed form from the Vice-Chancellors of the Universities (copy enclosed - Annexure II).

B. Application form for training/research abroad.

(i) Applications for training/research should be made in duplicate on the prescribed form which can be had from the Commission's office (copy enclosed - Appendix III).

(ii) Applications should be sponsored by the applicant's head of the department and the University authorities with an assurance that necessary leave on full salary will be provided in case the candidate is selected for participation in the programme.

(iii) Applicants are expected to give a detailed outline of the training required or the topic of research which they proposed to pursue abroad. The period of training will depend on the subject and the field of specialisation. The host country will arrange the training programme and placement.

(iv) Applications should be received not later than 31st August for selection in October and 31st January for selection in March every year.

(v) Selected candidates will have to serve their Universities/ Colleges after completing the training abroad for at least three years.

Final selection is made by the University Grants Commission on the recommendations of a committee which meets normally in October and March every year.

VISITS BY FOREIGN

SCIENTISTS TO UNIVERSITIES/ RESEARCH INSTITUTIONS IN INDIA.

Selection of foreign participants who visit India under these programmes is made by the country concerned and their placement in India is arranged by the University Grants Commission in a suitable University or a laboratory where they will spend a major period of their stay and take part in research, teaching and other activities of the host country in the field of their specialisation. They may also deliver a course of lectures and hold group discussions with research workers, and participate in symposia or seminars. They may visit a few other Universities or institutions engaged in research in the area of their interest. In special cases, the Commission may request for the services of a particular foreign expert to be made available to an Indian University.

A list of the experts/scholars who have participated under the different cultural exchange programmes is attached as Annexure IV (A) and Annexure IV (B)

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CULTURAL EXCHANGE PROGRAMMES 1967-69
WITH DIFFERENT COUNTRIES

Annexure I to Appendix I of
Item No. 22.

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S.No.	Scheme	Particulars	Duration	Subject/ assignment	Financial Terms	Remarks (Facilities for advanced training & research available in foreign country concerned)
1.	2.	3.	4.	5.	6.	7.
1.	Indo-Bulgarian Cultural Exchange Programme (1967-69)	Both sides to exchange one Professor/Scholar	1 month	Details are being worked out.	Details are being worked out.	Building/Mech./Elect./Chem. Engg. Mining, Geology, Mechanisation and electrification of Agriculture.
2.	Indo-Czechoslovakian Cultural Exchange Programme (1965-68)	Both sides to exchange three professors.	4 weeks	One each in humanities, physical sciences, engg. and technology.	Each side to pay the international air fare both ways in respect of its own nationals. Hospitality, maintenance, internal travel including local transport charges to be borne by the respective host country.	Mech./Elect./Engg. Nuclear Physics, Chem., Tech., Agriculture, Veterinary Medicine, Polytechnics.
3.	Indo-FDR (West Germany) Cultural Exchange Programme (1965-66)	Each side to exchange six professors in the next 4 to 5 years.	3 months	Details are being worked out.	-do-	Mining, Forestry, Metallurgy, Veterinary Sciences, Polytechnics.
4.	Indo-GDR (E. Germany) Cultural Exchange Programme (1966-67)	a) Both sides to exchange two scientists during 1966-67.	4 weeks	Study and Lectures.	-do-	Mech./Structural and High Way Engg. Geology, Animal Husbandry, Horticulture, Agronomy, Textile Technology.
		b) Both sides to exchange eight scientists (Placements available to UGC 2-3) during 1967-68.	3-4 weeks	Advanced Study and Lectures.	-do-	
		c) Both sides to exchange 5 young scientists. (Placements available to UGC 2)	6-8 months	Study and Lectures	-do-	

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1.	2.	3.	4.	5.	6.	7.
5.	Indo-Hungarian Cultural Exchange Programme (1967-69)	a. India to send 5 scholars (placements available to UGC -3)	1 Year extendable to another.	Advanced training in Science and Technology.	Indian side to pay for outgoing international travel costs. Maintenance, hospitality, internal travel and return international air fare to be borne by the host country.	Civil/Mech./Chem./Elect./High Way Engg., Geophysics, Mining, Metallurgy, Archaeology and Ethnology.
6.	Indo-Polish Cultural Exchange Programme (1966-68)	b. Each side to exchange 3 to 4 professors. Each side to exchange 3 professors.	3 to 4 months each. 4 weeks	To give lectures & develop scientific contacts. One each in humanities, physical sciences, Engg./Technology.	As against S.No.2 above. -do-	Civil/Chem/Mech. Engg., Architecture, Town Planning, Ship Building, Radio Telecommunications, Textile Technology, Sanitary Engg. Hydraulics, Marine Tech. Archaeology, Museology, Astronomy.
7.	Indo-Romanian Cultural Exchange Programme (1967-69)	a. Each side to exchange one professor. b. Both sides to exchange two research workers. c. Both sides to exchange one faculty member. d. Both sides to exchange one to two faculty members. e. Indian side will send one professor.	4 weeks 3 months 30 days Details 2 years	Physical Sciences Geophysics/Sciences Lecture and documentation are being worked out. To teach Hindi literature at Bucharest University.	-do- -do- -do- -do- As against S.No.5 on page 2.	Nuclear Physics, Solid State Physics, Electronics, Cybernetic automation, Geology, Petro-Chemistry, Oil Technology/Extraction, Medicine, Pharmacy, Agriculture, Polytechnics and Art Education.

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1.	2.	3.	4.	5.	6.	7.
8.	Indo-Soviet Cultural Exchange Programme (1967-63)	a. Both sides to exchange 12 professors (item No.23)	3 weeks	Natural Sciences and humanities.	As against S.No.2 on page 1.	Modern Sciences and Technology, Higher Mathematics, Physics, (all branches), Engineering (all branches), Thermodynamics, Nuclear Physics, Geology and Botany.
		b. Soviet side will send 20 scientific workers (placements available to UGC -6)(Item No.1)	3 months	8 in social sciences and 12 in natural sciences.	Indian side will pay hospitality including boarding, lodging, internal travel & pocket money at Rs.10 per day. International air fare both ways to be borne by the Soviet side.	
		c. Soviet side will send 6 teachers (Item No.27)	-do-	To work in Centres on Physics, Chemistry, Chem. Technology, Botany, Geology & Geography.	As against S.No. 8(b) above.	
		d. Indian side will send 3 professors (Item No.33)	3 weeks	To lecture at University of Friendship, Moscow.	USSR will pay hospitality including boarding, lodging, transport and pocket money and Indian side will pay air fare both ways.	
		e. Indian side will send 2 experts (Item No.37)	1 month	Correspondence Courses.	-do-	
		f. Both sides will continue academic scientific exchange between Indian and Soviet Universities.				
9.	Indo-Yugoslavian Cultural Exchange Programme (1967-69)	a. Both sides to exchange 1 or 2 professors/scholars.	Details being worked out.	Literature, language and culture of their respective country.	Details being worked out.	Civil, Mech. and Elect. Engg., Geology, Mining, Architecture, Transport and Communication Tech. Fine Arts.
		b. Both sides to exchange 2 University Professors.	-do-	To deliver lectures at each other's universities.	-do-	
		c. Indian side will send 2 University professors.	10 days.	To attend International Seminar "University Today" at Dubrounik.	Host country shall pay for the hospitality, maintenance and internal travel and the parent country the international air fare both ways.	

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1.	2.	3.	4.	5.	6.	7.
10.	Indo-U.A.R. Cultural Exchange Programme (1967-69)	a. Both sides to exchange one University Professor	3 to 6 months.	To work as Visiting Professor in Modern Arabic/Archaeology/ Egyptology.	As against S.No.2 on Page 1	Documentation, Journalism, Library Science, Aviation, Textile, Nautical, Ship Building Engg. Arabic language, Egyptology, Art and Drama.
		b. UAR to send 1 University Professor.	Details being worked out.	To deliver lectures on Arabic studies under Area Study Programmes.	Details being worked out.	
		c. UAR to provide 10 scholarships to Indian students (placements available to UGC-8)	1 to 2 years.	Junior Teachers in Arabic for speciali- zation in the language in U.A.R.		
11.	Indo-French Cultural Exchange Programme.	Under process.				

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Nomination for participation in the Cultural Exchange Programme between Indian and European countries during the year 1967-68.

(Countries included are : USSR/Yugoslavia/Bulgaria/Czechoslovakia/Rumania/German Democratic Republic/Federal Republic of Germany/Hungary/Poland/IAR/France)

Please indicate any one country.

1. Name of the person nominated.
2. Present position and address.
3. Age and Date of Birth.
4. Academic Qualifications.
5. Major Field of interest and Field of Specialisation.
6. Research Publications in the past five years and any distinctions conferred (Please attach a list giving necessary references).
7. Countries abroad visited in the past five years and purpose; name of sponsor and dates of visit .
8. Signature of the Nominee
9. Recommendation by the Vice-Chancellor of the University agreeing to provide to the teacher duty leave with full salary etc., for the period of his visit abroad under the Cultural Exchange Programme, if finally invited to participate.

Dated :

Vice-Chancellor

University of _____

संलग्न पोस्टल ऑर्डर (पोस्टल ऑर्डरों) पर अंकित संख्या और मूल्य और जारी करने वाले डाक-घर का नाम (पोस्टल ऑर्डर के बगैर आवेदन अधूरा समझा जाएगा)।

No.(s) value of postal order(s) attached and name of post office of issue. Without P.O. the application will be considered incomplete.)



भारत सरकार
GOVERNMENT OF INDIA

शिक्षा मंत्रालय
MINISTRY OF EDUCATION

(छात्रवृत्ति ब्यूरो)
(Bureau of Scholarships)

पासपोर्ट आकार का फोटो यहां चिपकाया जाए। (बिना फोटो के आवेदन अधूरा समझा जाएगा)

Passport size Photograph to be pasted here. (Without photograph application will be considered incomplete.)

छात्रवृत्ति के लिए आवेदन-पत्र

APPLICATION FORM FOR SCHOLARSHIP

आप किस योजना (किन योजनाओं) के लिए आवेदन कर रहे हैं?

Scheme(s) for which you are applying

विषय
Subject

1. *पूरा नाम श्री/श्रीमती/कुमारी
(गाफ अक्षरों में).

1. *Name in full Shri/Shrimati/Kumari
(in capital letters)

2. **प्रायोजक प्राधिकारी का नाम और/अथवा विदेश से लौटने पर आपको काम पर लगाने वाले प्राधिकारी का नाम

2. **Name of the sponsoring authority and/or name of the authority which will employ you after return from abroad.

3. जन्म स्थान और जन्म तारीख

3. Place and date of birth

(क) स्थान
(a) Place

जिला
Dist.

राज्य
State

(ख) जन्म तारीख
(b) Date of birth

*अपने नाम का वह अंश रेखांकित करें जिससे कि आप सामान्यतः अपने आप को बुलाना पसंद करेंगे।

*Underline the part of the name by which you would normally like to be called.

**यदि लागू न हो तो काट दें।

**Strike out if not applicable.

केवल कार्यालय में उपयोग के लिए।

For Official use only.

A

Q

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4. अपनी विश्वविद्यालयी शिक्षा अथवा अन्य उच्च शिक्षा के सम्बन्ध में निम्नलिखित ब्यौरा दें :
4. Give the following particulars concerning your University or other higher education :

संस्था का नाम Name of the Institution	प्रवेश की तारीख Date of Entry	छोड़ने की तारीख Date of Leaving	विशेष सम्मान, यदि कोई प्राप्त किया गया हो, पाठ्य-विषयेतर कार्यों में प्राप्त विशेष सम्मान सहित Special distinction obtained, if any including in extra-curricular activities

5. मैट्रिक या समकक्ष परीक्षा से शुरू करके, विश्वविद्यालय से अथवा उच्च या तकनीकी शिक्षा या शिक्षण केन्द्रों से उत्तीर्ण की गई समस्त परीक्षाओं और प्राप्त की गई डिग्रियों का ब्यौरा दें † (विश्वविद्यालय या संस्था के अभिलेख की प्रमाणित प्रति संलग्न करें) ।
5. Give particulars of all Examinations passed and degrees obtained at the University or other places of higher or technical education or instruction † commencing with Matriculation or equivalent examination (attach certified copy of the University or Institution record).

विश्वविद्यालय/बोर्ड University/Board	उत्तीर्ण की गई परीक्षा Examination passed	वर्ष Year	श्रेणी Class or Division	अंकों की प्रतिशतता और स्थान, यदि कोई प्राप्त हुआ हो Percentage of marks and position, if any	लिए गए विषय Subjects taken

† प्रशंसा-पत्रों की साक्ष्यित प्रतियों के बिना आवेदन अव्यवस्था माना जाएगा ।
† Without attested copies of the testimonials etc. applications will be considered incomplete.

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6. क्या आपने कोई अनुसंधान कार्य किया है अथवा आपका कोई शोधपत्र प्रकाशित हुआ है ? यदि हाँ, तो कृपया उसका ब्यौरा प्रस्तुत करें और यदि संभव हो तो, शोध-पत्रों की प्रतियाँ भेजें। यदि नीचे दिया गया स्थान इस प्रयोजन के लिए अपर्याप्त हो तो पूरा ब्यौरा अलग कागज़ पर लिख कर दिया जाए।
6. Have you done research work or published any papers ? If so, give particulars and if possible, send copies of papers. If the space below is insufficient for this purpose please give full particulars on a separate sheet of paper.

7. क्या आपने कोई व्यावहारिक प्रशिक्षण *प्राप्त किया है ? यदि हाँ तो कृपया निम्नलिखित विवरण दें :
7. Have you taken any practical training* ? If so, give the following particulars :

फर्म का नाम Name of Firm	प्रवेश की तारीख Date of Joining	छोड़ने की तारीख Date of Leaving	मासिक मान-देय वज़ीफा या शिक्षता भत्ता, यदि कोई हो Monthly Honorarium, Stipend or Appren- ticeship Allowance, if any Rs.	प्रशिक्षण का स्वरूप Nature of Training

8. जो विदेशी भाषाएं आप जानते हैं उनके नाम, प्रत्येक भाषा में प्राप्त प्रवीणता का भी निर्देश करें।
8. Names of foreign languages known indicating proficiency attained in each.

- 9(क) क्या आप कहीं काम करते रहे हैं ? यदि हाँ, तो कृपया निम्नलिखित ब्यौरा दें, अन्यथा अगर वह अवधि मद सं० 7 के अन्तर्गत नहीं आती तो यह सूचित करें कि मद संख्या 5 में उल्लिखित अंतिम परीक्षा पास करने के बाद से आप क्या करते रहे हैं ?
- 9(a) Have you been employed ? If so, give the following details, otherwise indicate what you have been doing since your last examination mentioned in item 5 unless the period is covered under item No. 7 :

वह कार्यालय/संस्था जहां काम किया Office/Institution where employed	नौकरी शुरू करने की तारीख Date of Joining	नौकरी छोड़ने की तारीख Date of Leaving	किस पद पर थे Post Held	मासिक वेतन रुपये Monthly Salary Rs.	ड्यूटी का स्वरूप Nature of Duties

*डिग्री या डिप्लोमा प्राप्त करने के लिए लिया गया प्रशिक्षण, किया गया अनुसंधान कार्य अथवा प्रकाशित किए गए शोध-पत्रों का निर्देश इसी रूप में किया जाए।

*Training taken, research work done or papers published for obtaining a degree or diploma should be indicated as such.

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- (ख) क्या आपके, अपने नियोक्तियों के प्रति कोई संविदागत दायित्व हैं? यदि हां, तो कृपया ब्यौरा प्रस्तुत करें .
(b) Have you any contract obligations with your employers? If so, furnish details.
(ग) क्या चुने जाने पर आपके नियोक्ता आपको कार्य-मुक्त कर देंगे?
(c) Will you be relieved by your employers, if selected?

अथवा
or

- (घ) क्या आपको त्याग-पत्र देना होगा?
(d) Will you have to resign?

10(क) अध्ययन/अनुसंधान का प्रस्तावित कार्यक्रम

10(a) Proposed programme of study/research

(1) मुख्य विषय
(i) Main subject

(2) उप-विषय
(ii) Sub-subject

- (ख) उस संस्था का नाम (यदि ज्ञात हो) जिसमें आप दाखला / प्रशिक्षण लेना चाहते हैं (अधिमान क्रम से)
(b) Name of the Institution (if known) in which admission/training is desired (in order of preference)

- (ग) कृपया यह बताएं कि क्या आप उपयुक्त छात्रवृत्ति एजेंसी की सिफारिश पर किसी दूसरी संस्था में सेवा करने के लिए तैयार हैं?
(c) State whether you are willing to accept a place at some other institution if the appropriate scholarship agency recommends it.

- (घ) जिस देश में आप अध्ययन करना चाहते हैं, क्या आप उस देश के किसी विश्वविद्यालय, या विश्वविद्यालय के किसी प्रोफसर से पहले ही बातचीत कर चुके हैं? यदि हां, तो नाम और बातचीत के परिणाम का उल्लेख करें
(d) Have you already approached any University or University Professor in the country in which you intend to study; if so, give names and results.

- (ङ) प्राप्त की गई उपाधि, यदि कोई हो
(e) Degree sought, if any

- (च) आप जो काम कर रहे हैं उसका संक्षिप्त सा विवरण लगभग 100 शब्दों में दें। (यदि आवश्यक हो तो अतिरिक्त पन्ना संलग्न करें)
(f) Give a brief statement in about 100 words about the work engaged in (attach an extra sheet, if necessary).

- (छ) अभीष्ट अध्ययन/अनुसंधान के स्वरूप और कार्यक्रम के बारे में लगभग 100 शब्दों में संक्षिप्त विवरण प्रस्तुत करें (आवश्यक हो तो अतिरिक्त पन्ना संलग्न करें)

- (g) Give a brief statement in about 100 words about the nature and programme of study/research desired (attach an extra sheet, if necessary)

11. अध्ययन/अनुसंधान के बाद भविष्य में उन्नति की संभावना

11. Future prospects after studies/research

- (क) भविष्य के लिए योजनाएं
(a) Plans for the future

- (ख) उन्नति की ये योजनाएं देश की तकनीकी अथवा आर्थिक सफलताओं से किस रूप में संबंधित हैं?
(b) How are these related to the technical or economic achievement of the country?

12(क) पिछले दो वर्षों में क्या आपने किसी अन्य छात्रवृत्ति के लिए आवेदन किया है? यदि हाँ, तो कृपया छात्रवृत्ति (छात्रवृत्तियों) का नाम (के नाम) और तदन्तर्गत प्रस्तावित अध्ययन/अनुसंधान के विषय (विषयों) का भी उल्लेख करें। क्या आप ऐसी किसी दूसरी छात्रवृत्ति योजना के लिए, जिसमें किसी दूरे देश में जा कर अध्ययन करना पड़ता हो, विचारार्थ अपना नाम देने के लिए तैयार हैं?

12(a) Have you applied for any other scholarship in the last two years? If so, state the name(s) of the scholarship(s) and the subject(s) of study/research proposed therein. Are you willing to be considered for any similar Scholarship Scheme involving study in another country?

(ख) जिन छात्रवृत्ति-योजनाओं और देशों के लिए अपने नाम पर विचार किए जाने के लिए आप तैयार हैं उन छात्रवृत्ति-योजनाओं और देशों की सूची

(b) List of Scholarship Schemes and countries in order of preference for which you wish to be considered

13. नीचे किन्हीं ऐसे तीन व्यक्तियों के नाम दें, (ये किसी भी हालत में, आपके रिश्तेदार न हों) जों कि अपनी व्यक्तिगत जानकारी के आधार पर प्रस्तावित पाठ्यक्रम के लिए आपकी योग्यता प्रमाणित कर सकें। इनमें से दो व्यक्ति ऐसे होने चाहिए जिनके अर्धान आप काम करते रहे हों अथवा पढ़ते रहे हों

13. Give below the names of three persons (they must not be related to you) who are in a position to testify from their personal knowledge as to your fitness for the proposed course of study. Two of them must be persons under whom you have worked or studied.

(1) नाम
(i) Name

हैसियत
Status

पूरा पता
Full Address

(2) नाम
(ii) Name

हैसियत
Status

पूरा पता
Full Address

(3) नाम
(iii) Name

हैसियत
Status

पूरा पता
Full Address

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14. क्या आप कभी भारत/सिक्किम से बाहर गए हैं? यदि हां, तो निम्नलिखित ब्यौरा प्रदान करें।
 14. Have you been outside India/Sikkim? If so, give the following particulars :

वह देश जहां गए Country Visited	जाने की तारीख Date of Visit	कितनी अवधि तक रहे Duration of Visit	वहां जाने का प्रयोजन Purpose of Visit	प्राप्त हुई छात्रवृत्ति, यदि कोई हो Scholarship received, if any

15. आवेदक का पता
 15. Address of the applicant

- (1) वर्तमान
(i) Present
- (2) स्थायी
(ii) Permanent

16. आप भारत के नागरिक हैं या सिक्किम की प्रजा ?
 16. Are you a citizen of India or subject of Sikkim?

पुरुष/स्त्री
 Sex

धर्म
 Religion

क्या आप अनुसूचित जाति, अनुसूचित जन-जाति अथवा अन्य पिछड़े वर्ग या जन जाति अथवा आदिम जाति के हैं? यदि हां, तो कृपया ब्यौरा दें और अपने कथन के समर्थन में जहां आप रहते हैं उस स्थान के जिला मजिस्ट्रेट का प्रमाण-पत्र संलग्न करें।
 Are you a member of Scheduled Caste, Scheduled Tribe or other Backward Class or a Tribal or Aboriginal Community? If so, give particulars and attach certificate from the District Magistrate of your place of residence in support of your claim.

17(क) आप विवाहित हैं या अविवाहित?
 17(a) Are you married or single?

- (ख) यदि विवाहित हैं, तो बच्चों की संख्या (यदि कोई बच्चा हो), उनकी आयु सहित
- (b) If married, number of children (if any) with ages

18. आप किस राज्य से हैं?
 18. The State to which you belong

19. पिता का नाम (पूरा नाम)
 19. Father's name (in full)

राष्ट्रिकता
 Nationality

पता*
 Address*

व्यवसाय*
 Occupation*

*यदि मर चुके हों तो अंतिम पता और मृत्यु से पूर्व व्यवसाय का उल्लेख करें।
 *If dead, state last address and occupation before death.

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20. आपात-स्थिति की दशा में, किस निकटतम संबंधी को सूचित किया जाए (नाम, पता और संबंध का उल्लेख करें)
20. Next of kin to be notified in case of emergency (give name, address and relationship).
21. मैं इसके द्वारा यह घोषित करता हूँ कि इस फार्म में किए गए इन्दराज और उपर्युक्त प्रश्नों के उत्तर में प्रस्तुत किया गया अति-रिक्त ब्यौरा (यदि कोई हो) जहां तक मेरी जानकारी और विश्वास है, सत्य है।
21. I hereby declare that the entries in this form and the additional particulars (if any) furnished in reply to the questions above are true to the best of my knowledge and belief.

स्थान
Place
तारीख
Date

उम्मीदवार के हस्ताक्षर
Signature of the Candidate

- 22(क) †प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी..... मेरे/हमारे यहां काम करता है और मैंने/हमने उसका नाम विदेश में अध्ययन के लिए प्रायोजित किया है।
- 22(a) †Certified that Shri/Shrimati/Kumari..... is employed by me/us and has been sponsored by me/us for study abroad.
- (ख) †मैं/हम उसके छात्रवृत्ति के लिए चुने जाने पर उसे कार्य मुक्त कर दूंगा/कर देंगे।
(b) †He/She will be relieved by me/us, if selected.
- (ग) †मैं/हम यह वचन देता हूँ/देते हैं कि विदेश से अध्ययन के बाद लौटने पर उसे अपने विभाग/संगठन में कार्य करने दिया जाएगा। मैं/हम यह सनिश्चित करूंगा/करेंगे कि विदेश में होने के दौरान उसकी अनुपस्थिति के कारण उसकी सेवा-शर्तों यथा वेतन, वरिष्ठता, पदोन्नति, छुटी आदि पर कोई प्रतिकूल प्रभाव न पड़ेगा और इस बात का खयाल रखूंगा/रखेंगे कि छात्र को, विदेश में प्राप्त की गई योग्यताओं/प्रशिक्षण के उपयुक्त और अनुरूप काम और सेवा-शर्तों देने का हर संभव प्रयत्न किया जाए।
- (c) †I/We undertake that he/she will be permitted to join his/her department/organisation on return from study abroad. I/We will ensure that his/her terms and conditions of service i.e. salary seniority, promotion, leave, etc. will not be adversely affected on account of his/her absence and further note that everything possible will be done to provide the scholar with work and conditions of service suitable to, and commensurate with his/her qualifications/training obtained abroad.

स्थान
Place
तारीख
Date

नियोक्ता/प्रायोजक प्राधिकारी के हस्ताक्षर
Signature of the Employing/Sponsoring Authority

कार्यालय की मुहर
Seal Office

†यदि लागू न हों तो काट दें।
†Strike out if not applicable.

ध्यान दें :—काम पर लगे हुए व्यक्तियों के मामले में विहित फार्म पर अग्रिम प्रति स्वीकार कर ली जाएगी, लेकिन शर्त यह है कि मूल आवेदन सब तरह से पूरे करके उचित सरणि से, इण्टरव्यू के लिए निश्चित तारीख तक अथवा किसी दूसरी निर्दिष्ट तारीख तक भेज दिए जाने चाहिए।
*N.B.—*In case of employed persons, advance applications on prescribed form will be entertained provided the original applications complete in all respects, are received through proper channel by the date fixed for interview or any other specified date.

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MINISTRY OF EDUCATION
(ES.1)

Please answer 'YES' or 'NO'

- 1. Are you educationally qualified? 'YES'/'NO'
- 2. Do you possess minimum two years' experience? 'YES'/'NO'
- 3. Are you below 35 years of age? 'YES'/'NO'

Name of the Scheme -USSR
Govt. Scholarships, 1968-69
Subject: _____
Sub-subject _____
Group _____

- 1. Name of the candidate in full with surname in capital letters _____
- 2. Age(in completed years): _____ Date of birth _____
- 3. Academic record starting High School/Higher Secondary: _____

Name of the University/Bd.	Examination(s) Passed.	Year of passing	Division/Class with % of marks & position, if any.	Subject taken
1.	2.	3.	4.	5.

4. Brief details of professional/practical and research experience specifying the period, and number of papers published. Previous employment with names and dates of employment, if any.

5. Nature of the present employment with date of appointment, designation and the name address of the employers.

6. Have been abroad? If so, give full particulars(Country and purpose).

7.. Have applied for any other Government of India scholarship, if so, give details

Postal Address:

Date :

Signature of the candidate.

STATEMENT SHOWING THE DETAILS OF THE INDIAN EDUCATIONISTS, SCIENTISTS & SCHOLARS WHO WENT ABROAD UNDER CULTURAL EXCHANGE PROGRAMMES.

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ANNEXURE IV (A)

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S.No.	Year	Name and address of the visitor	Name of the Programme	Item No.	Period	Remarks
1.	2.	3.	4.	5.	6.	7.
1.	1964	Professor B.Tripathi, Physics Department, Banaras Hindu University, Varanasi.	Indo-U.S.S.R.	30 of 1963-64	About 9 months.	D. 9.10.64 A. 10.6.65
2.	-do-	Prof.F.C.Auluck, Department of Physics, Delhi University, Delhi-7.	-do-	32 of 1963-64	2 weeks	D. 29.5.64 A. 15.6.64
3.	-do-	Prof.R.C.Mitra, Department of Chemistry, Delhi University, Delhi-7.	-do-	-do-	-do-	D. 29.5.64 A. 15.6.64
4.	-do-	Prof.S.P.Raychaudhuri, Department of Zoology, Banaras Hindu University, Varanasi.	-do-	-do-	3 weeks	D. 4.4.64 A. 25.4.64
5.	-do-	Prof.M.S.Sadasiviah, Department of Geology, Karnatak University, Dharwar.	-do-	-do-	about 3 weeks.	D. 15.5.64 A. 2.6.64
6.	-do-	Prof.S.K.Chakravarty, Professor of Applied Mathematics, Calcutta University, Calcutta.	-do-	-do-	-do-	D. 15.5.64 A. 2.6.64
7.	1965	Prof.P.N.Mehra, Department of Botany, Panjab University, Chandigarh.	-do-	Item No. 7 of 1964-65	2-4 weeks	
8.	-do-	Prof.V.G.Bhide, Department of Physics, Institute of Science, Bombay.	-do-	-do-	-do-	
9.	-do-	Prof.P.Maheshwari (Late) Department of Botany, Delhi University, Delhi-7.	-do-	-do-	-do-	Went in June, 1965
10.	-do-	Prof.R.V.Seshiya, Marine Biology Department, Annamalai University, Annamalainagar.	-do-	-do-	-do-	
11.	-do-	Prof.T.Sharma, Zoology Department, Banaras Hindu University, Varanasi.	-do-	Item 21 of 1964-65.	3 months	
12.	1966	Prof.M.C.Nath, Department of Bio-Chemistry, Nagpur University, Nagpur.	-do-	Item No. 7 of 1964-65.	2-4 weeks	Went in May, 1966.

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1.	2.	3.	4.	5.	6.	7.
13.	1966	Prof.M.R.Rajaskharsetty, Department of Zoology, Mysore University, Mysore.	Indo-USSR	Item No.5 of 1965-66	Upto 6 weeks	Went in May,1966.
14.	-do-	Prof.L.S.Kotlari, Department of Physics, Delhi University, Delhi-7.	-do-	-do-	-do-	-do-
15.	-do-	Prof.S.C.Chatterji, Geology Department, Calcutta University, Calcutta.	-do-	-do-	-do-	-do-
16.	-do-	Mrs.F.Branne, Economics Department, Poona University.	-do-	-do-	-do-	-do-
17.	-do-	Prof.R.C.Majumdar, Head of the Physics Department, Delhi University, Delhi-7.	-do-	Item No.42 of 1966-67	3-4 weeks	Went in July,1966.
18.	1967	Dr.D.C.Pavate, Vice-Chancellor, Karnatak University, Dharwar.	-do-	-do-	-do-	Went in March,1967.
19.	-do-	Nawab Ali Yavar Jung, Vice-Chancellor, Aligarh Muslim University, Aligarh.	-do-	-do-	-do-	-do-
20.	-do-	Prof.L.R.Wadia, Member, University Grants Commission, New Delhi.	-do-	-do-	-do-	-do- (S.No.18,19,& 20 were the members of an Indian Delegation to Russia).
21.	-do-	Prof.C.Gowala Rao, Department of Chemistry, Andhra University, Waltair.	-do-	Item 5 of 1965-66	Upto 6 weeks	Went in February,1967.
22.	-do-	Professor L.C.Jaul, Department of Chemistry, Panjab University, Chandigarh.	-do-	Item 42 of 1966-67.	3 - 4 weeks	D. 26.3.67 A. 21.4.67
23.	-do-	Shri T.P.Meenakshisundaram, Vice-Chancellor, Madurai University, Madurai	-do-	-do-	-do-	Went in April,1967.
24.	-do-	Prof.Masood Alam, Head of Zoology, Department, Aligarh Muslim University, Aligarh.	-do-	-do-	-do-	Went in March,1967.
25.	-do-	Prof.T.P.Srinivasan, Director, Centre of Advanced Studies for Maths, Panjab University, Chandigarh.	-do-	-do-	-do-	Went in April,1967.

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1.	2.	3.	4.	5.	6.	7.
26.	1967	Prof.K.S.Murty, Head of Philosophy Department, Andhra University, Waltair.	Indo-US3R	Item 42 of 1966-67.	3-4 weeks	Went in April, 1967.
27.	-do-	Prof.J.Venkateshorlu, Head of Botany Department, Andhra University, Waltair.	-do-	-do-	-do-	Went in March, 1967.
28.	-do-	Shri K.L.Shrimali, Vice-Chancellor, Mysore University, Mysore.	-do-	-do-	-do-	D. 11.5.67 A. 18.6.67
29.	-do-	Prof.S.Iev, Head of Geological Sciences, Jadavpur University, Calcutta.	-do-	Item 36 of 1966-67.	-do-	Went in June, 1967.
30.	-do-	Prof.K.B.Y.Thotappa, Head of Political Science Department, Mysore University, Mysore.	-do-	Item 31 of 1967-68.	3 weeks	Visited Kiev University from 14.9.67 to 13.10.67
31.	-do-	Prof.K.N.Narayan, Head of the Botany Department, Mysore University, Mysore.	-do-	-do-	-do-	-do-
32.	-do-	Sh.G.Rajasekhar, Reader in Engineering & Technology, Banarus Hindu University, Varanasi.	-do-	Teacher-Trainee USSR Scholarship Scheme, 1967-68.	for 1-2 years	Went on 8.10.1967
33.	-do-	Shri G.L.Garg, Instructor in Maths., Panjabi University, Patiala.	-do-	-do-	-do-	Went on 19.10.67
34.	-do-	Shri H.C.K.Mathur, Associate Reader in Maths., Udaipur University, Rajasthan.	-do-	-do-	-do-	Went on 22.10.67
35.	1965	Dr.D.C.Favate, Vice-Chancellor, Karnatak University, Dharwar.	Indo-G.D.R.	Item 24 of 1965-66.	2 weeks	Went in May, 1965.
36.	-do-	Shri K.J.Joshi, Secretary, University Grants Commission, New Delhi.	-do-	-do-	-do-	-do-
37.	-do-	Dr.Nural Hassan, Professor of History, Aligarh Muslim University, Aligarh	-do-	-do-	-do-	-do-
38.	1967	Prof.Supriya Roy, Department of Geophysics, Jadavpur University, Calcutta.	-do-	Item 1 of 1966-67	4 weeks	Went in September 1967.
39.	1967	Dr.K.L.Shrimali, Vice-Chancellor, Mysore University, Mysore.	Indo-F.D.R.	Ad hoc Academic Exchange Programme 1966-67.	One week	Visited FDR from 11.7.67 to 18.7.67.

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1.	2.	3.	4.	5.	6.	7.
40.	1965	Dr. S. Krishna Swamy, Zoology Department, Madurai University, Madurai	INDO-POLISH	Item 5 of 1964-65	2-4 weeks	During March/April 1966
41.	-do-	Prof. N.N. Chaudhury, Head of Fine Arts Deptt., Baroda University, Baroda.	-do-	-do-	-do-	
42.	1967	Dr. A.K. Dey, Chemistry Department, Allahabad University, Allahabad.	INDO-CZECH	Item 1 of 1965-66	One month	Went in Middle of September, 1967.
43.	1966	Prof. C.V. Ramakrishnan, Bio-Chemistry, Baroda University, Baroda.	INDO-BULGARIA	Item 7 of 1965-66	3 weeks	D. 28.10.66 A. 18.11.66
44.	1966	Prof. Baljit Singh, Head of Economics Department, Lucknow University, Lucknow.	INDO-HUNGARY	Item 4 of 1965-67	2 months	
45.	-do-	Shri D.K. Gosh, Lecturer, Jadavpur University.	-do-	Item 2 of 1965-67	6 months	Returned after training on 19.12.66
46.	1967	Dr. B.S. Rao, Professor of Geophysics, Andhra University, Waltair.	-do-	Item 4 of 1965-67	2 months	
47.	-do-	Prof. V. Baliah, Department of Chemistry, Annamalai University, Annamalai Nagar.	INDO-ROMANIA	Item 6 of 1965-66	3 weeks	D. 4.3.67 A. 24.3.67
48.	1966	Prof. R.C. Majumdar, Head of the Physics & Astrophysics Department, Delhi University, Delhi.	INDO-YUGOSLAVIA	Item 5 of 1965-67	10 days	From 15th to 25th July, 1966 to attend a seminar on 'University Today'.
49.	-do-	Dr. G.M. Naber, Department of Chemical Technology, Bombay University, Bombay.	-do-	-do-	-do-	-do- (S.No. 48 & 49 attended the seminar as Indian delegates)
50.	-do-	Dr. D.M. Sen, Vice-Chancellor, Burdwan University, Burdwan.	-do-	Item 10 of 1965-67	3 weeks	From 4.9.66 to 21.9.66
51.	-do-	Prof. H.L. Sankhalia, History Department, Poona University, Poona.	-do-	-do-	-do-	-do- (S.No. 50 and 51 were members of Indian Delegation)
52.	1967	Principal G.V. Solkar, Professor of Chemistry, College of Science, MAGRUR	-do-	Item 5 of 1965-67	10 days	From 20.7.67 to 30.7.67
53.	-do-	Prof. Hamam Singh, Head of the Political Science Department, Delhi University.	-do-	-do-	-do-	-do- (S.No. 52 and 53 attended the Seminar on 'University Today' as Indian delegates).

STATEMENT SHOWING DETAILS OF THE FOREIGN EDUCATIONISTS, SCIENTISTS
& SCHOLARSH WHO VISITED INDIA UNDER VARIOUS CULTURAL EXCHANGE PROGRAMMES

ANNEXURE IV(b)

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Year	S.No.	Name, designation and field of the foreign visitor	Name of the Programme	Item No.	Period	Arrival/Departure	Universities and places visited	Remarks
1.	2.	3.	4.	5.	6.	7.	8.	9.
1964	1	Dr. M. V. Muratov, Moscow Mining Institute.	INDO-USSR	Item 47 of 1963-64	3 weeks	6.1.64 / 23.1.64	Delhi, Udaipur, Chandigarh, Bombay, Hyderabad, Madras & Calcutta.	
do	2	Dr. A. S. Sadykov, Rector, Tashkent University.	-do-	-do-	-do-	-do-	Lucknow, Bombay, Osmania Univ., Hyderabad & Delhi.	
do	3	Prof. M. M. Mirtalishvili, Rector, Tbilisi State, University.	-do-	-do-	-do-	-do-	Bombay, Bangalore, Madras Calcutta & Delhi.	
1965	4	Prof. V. I. Zueb, Candidate of Science, Moscow Technical Instt.	-do-	26 of 1964-65	-do-	Feb. 1965/March '65	Delhi, Waltair, Annamalainagar, Madras, Trivandrum and Bombay.	
do	5	Prof. V. A. Venikov, Head of Moscow Power Institute.	-do-	-do-	-do-	-do-	Jalgaon, Bangalore, Bombay & Delhi.	
do	6	Prof. Brishtain, Professor of Zoology, Moscow State University.	-do-	-do-	-do-	18.2.65/10.3.65	Delhi, Waltair, Annamalainagar, Madras, Trivandrum & Bombay.	
1966	7	Prof. A. V. Tulab, Professor of Physics.	-do-	Item 22 of 1965-66	2-3 weeks	16.6.66/7.7.66	Delhi, Udaipur, Bombay, Bangalore, Madras & Calcutta.	
do	8	Mrs. V. Palanova, Professor of History, Chancellr, Ashakabad University.	-do-	Item 17 of 1965-66	-do-	1.2.66/16.2.66	Delhi, Agra, Bombay, Hyderabad & Calcutta.	
do	9	Prof. G. P. Khrutshvily, Professor of Physics, Tbilisi University.	-do-	-do-	-do-	-do-	Delhi, Bombay, Agra, Madras and Calcutta.	
do	10	Prof. A. N. Nazmeonov, Chemical Faculty, Moscow State University.	-do-	-do-	-do-	Feb. / March 1966	Delhi, Banaras, Calcutta Bombay and Poona.	
do	11	Prof. G. A. Sokolov, Professor of Geology & Minerals.	-do-	Item 2 of 1965-66	one month	30.3.66/4.5.66	Delhi, Calcutta, Jamshedpur, Dhanbad, Gatsila, Kharagpur Bhubaneshwar, Madras, Bangalore and Nagpur.	

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1.	2.	3.	4.	5.	6.	7.	8.	9.
1966	12	Dr. E.N. Komarov, (History) (Research Scholar)	INDO-SOVIET	Item 1 of 1965-66		8.3.66/17.9.66	Delhi, Lucknow, Cal., Patna, Bhubaneshwar, Vishakhapatnam, Hyderabad, Madras, Bangalore, Cochin, Trivendrum, Bombay & Ahmedabad.	
-do-	13	Dr. G.K. Shrichov (Economics) (Research Scholar)	-do-	-do-	...	-do-	-do-	Lucknow, Cal., Madras, Trivendrum, Bombay, Poona and Jaipur, Varanasi, Hyderabad, Saugar & Aligarh.
-do-	14	Dr. (Mrs.) G.V. Sadasuk, Economics and Geography, (Research Scholar)	-do-	-do-	...	...	5.7.66/ 7.9.66	Cal. Bhubaneshwar, Vishakhapatnam, Hyderabad, Madras, Pondichery, Bangalore, Trivendrum, Cochin, Mangalore, Dharwar, Bombay, Allahabad and Delhi.
-do-	15	Dr. V.G. Kharijanovsky, (Biolo- gical Sciences).	-do-	Item 30 of 1966-67		2-4 months	9.8.66/ 12.10.66	Delhi, Lucknow, Calcutta, Darjee- ling, Madras, Coimbatore, Banga- lore, Bombay, Simla & Dehra-Dun.
-do-	16	Dr. (Mrs.) M.P. Sokolova (Biological Sciences).	-do-	-do-		-do-	-do-	-do-
-do-	17	Prof. R.A. Gorchokov, Professor of Economics, Leningrad Univ. & Mrs. R.A. Gorchokov.	-do-	Item 21 of 1965-66		About 5 months.		Placed at Delhi University.
-do-	18	Prof. S. Kozhir, Professor of Organic Chemistry, S.S.A., Leningrad University.	-do-	Item 30 of 1966-67		3 months	1.11.66/4.7.67	Delhi, Chandigarh, Varanasi, Cal., Bangalore, Hyderabad, Mysore and Bombay.
-do-	19	Prof. V.S. Mironov, Professor of Geological & Mineralogical Sc., Leningrad University.	-do-	-do-		-do-	---	Delhi, Varanasi, Waltair, Cal., Hyderabad and Saugar.
-do-	20	Dr. M.D.S. Baktashi, Education Ministry of Nukhichevanskaya, Azerbaijan Republic.	-do-	Item 36 of 1966-67		2 weeks	18.10.66/ 2.11.66	Delhi, Agra, Madras & Bombay.
-do-	21	Mr. R.A. Radzhalov, Education Ministry of Nukhichevanskaya, Azerbaijan Republic.	-do-	-do-		-do-	-do-	-do-

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1.	2.	3.	4.	5.	6.	7.	8.	9.
1966	22	Mrs. S. Z. K. Ibrahimova, Director of Schools, Baku.	INDO-SOVIET	Item 36 of 1966-67.	2 - weeks	18.10.66/ 2.11.66	Delhi, Agra, Madras, and Bombay.	
-do-	23	Madam M. A. Faworskaya, Professor of Geology and Minerology.	-do-	Item 2 of 1966-67	4 - weeks	18.10.66/ 16.11.66	Delhi, Agra, Bombay, Madras Bangalore, Patna, Calcutta and Udaipur.	
-do-	24	Prof. N. D. Zevandrov, Applied Mathematics, Academy of Sciences.	-do-	Item 2 of 1966-67	-do-	21.11.66/ 21.12.66	Delhi, Agra, Madras, Bombay and Bangalore.	
1967	25	Prof. V. S. Bizuz, Professor of History, Kiev State University.	-do-	Item 42 of 1966-67	-do-	3.1.67/ 1.2.67	Delhi, Bombay, Bangalore & Hyderabad.	
-do-	26	Prof. A. G. Galitulin, Chief of Cafedra in Engg.	-do-	-do-	-do-	-do-	Delhi, Roorkee, Banaras, Jadavpur, Cal., Kharagpur Madras, & Bangalore.	
-do-	27.	Prof. M. G. Veselov, Professor of Physics, Leningrad University.	-do-	-do-	-do-	Dec. 66/ Jany. 67	Delhi, Bombay, Bangalore, Madras Calc. Jadavpur and Delhi.	
-do-	28	Dr. Lev Sterman, Professor at Moscow Institute of Energetics.	-do-	-do-	-do-	14.2.67/ 15.3.67	Delhi, Roorkee, Bombay, Bangalore Madras and Calcutta.	
-do-	29	Dr. V. I. Arnold, Professor of Physics, Moscow State University.	-do-	Item 43 of 1966-67	one month	31.1.67/ 1.3.67	Delhi, Bombay, Belgaon, Dharwar, Bangalore, and Madras.	
-do-	30	Dr. E. S. Bogolubov, Aviation Engineer and Reader in All Union Polytechnical Institute for Correspondence.	-do-	Item 31 of 1966-67	six months	14.3.67/ 17.5.67	Delhi, Bangalore & Bombay.	
-do-	31.	Dr. P. A. Gofiev, Marine Engg.	-do-	Item 43 of 1966-67	6 months	17.10.67/ 21.2.68	Placed at Andhra University, Waltair.	
-do-	32	Dr. B. N. Sharma, Professor of Geology, and Geo-Chemistry.	-do-	Item 1 of 1967-68	3 months	21.11.67/ 21.2.68	Delhi, Patna, Banaras, Calcutta, Kharagpur, Madras, Tirupati, Bangalore and Udaipur-Ajmer.	
-do-	33	Prof. T. A. Razob, Expert in Sociology, Khirgiz University.	-do-	Item 42 of 1966-67	4 weeks	4.10.67/ 1.11.67	Delhi, Ahmedabad, Bombay and Baroda.	
-do-	34	Prof. V. D. Zetov, Professor of Philosophy, Turkmenian University.	-do-	-do-	-do-	29.9.67/ 25.10.67	Delhi, Hyderabad and Bombay.	
-do-	35	Prof. Y. V. Petcherko, Professor of History.	-do-	-do-	-do-	19.9.67/ 18.10.67	Delhi, Varanasi, Bombay, Poona Udaipur and Jaipur.	

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1.	2.	3.	4.	5.	6.	7.	8.	9.
1967	36.	Prof. G. S. Techogshivilli, Professor of Mathematics, Tbilisi University.	INDO-USSR	Item 42 of 1966-67.	one month	19.9.67/ 18.10.67	Delhi, Varanasi, Bombay, Aurangabad, Bangalore & Madras.	
1965	37.	Prof. Bela Gyires (Mrs), Professor of Mathematics.	INDO-HUNGARY	Item 2 of 1964-65	-do-	30.3.65/ 30.4.65		
1966	38	Dr. Surayani, Research Scholar of Economics	-do-	Item 1 of 1965-67	6 months	7.11.66/		
1966	39	Dr. Gerei, Soil Engineering	-do-	Item 3 of 1965-67	1 month	26.11.66/ 20.12.66	Delhi, Agra, Allahabad, Aligarh, Jodhpur and Bombay.	
-do-	40	Dr. T. Horvath, Archaeology	-do-	-do-	3 months	14.1.67/ 1.4.67	Delhi, Ahmedabad, Baroda, Bombay, Aurangabad, Hyderabad, Madras, Calcutta, Bhubaneswar, Varanasi, Agra, Mathura.	
-do-	41	Dr. A. Kezdi, Professor of Technology	-do-	-do-	2 months	26.11.66/ 22.12.66	Delhi, Roorkee, Calcutta, Madras and Bangalore.	
-do-	42	Dr. J. Horvath, Theoretical Physics.	-do-	-do-	-do-	3.12.66/ 8.1.67	Delhi, Madras, Bangalore, Bombay, Aurangabad, Allahabad and Hyderabad.	
-do-	43	Prof. Varsanyi, Physical Chemistry	-do-	-do-	2 months	2.11.66/ 2.12.66	Delhi, Bombay, Bangalore, Madras, Hyderabad, Ernakulam, Waltair, Varanasi, Calcutta, & Kanpur	
1967	44	Dr. Zoltan Fekete, Soil Sciences	-do-	Item 14 of 1967-68	-do-	25.11.67/ 24.1.68	Delhi Hissar, Simla, Dehradun, Kanpur, Jodhpur, Udaipur, Bombay, Poona, Bangalore and Coimbatore.	
-do-	45	Dr. J. Ladik, Bio-Physics.	-do-	Item 14 of	-do-	18.11.67/ 16.1.68	Delhi, (All India Institute of Medical Sciences) Jodhpur, Jaipur, Kasholi and Simla.	
-do-	46.	Dr. Mirjana Brucem, Prof. Electro-Tech, Faculty of University of Ljubljana.	INDO-YUGOSLAVIA	Item 10 of 1965-66	3 weeks	23.2.67/ 15.3.67	Delhi, Bombay, Bangalore, Madras, Calcutta, and Durgapur.	
-do-	47	Dr. V. Veselinovic, Professor Machine Elements & Fundamental Designs, Higher School and Mech. Engg. Belgrade.	-do-	-do-	-do-	-do-	-do-	(Sn No. 46 & 47 came as a delegation)
1965	48	Prof. L. Sommer, Professor of Economics, Brno University.	INDO-CZECH.	Item 11 of 1965-66	4 weeks	13.1.66	Delhi and Allahabad, Chemistry	
1967	49	Prof. V. Kadlec, Professor of Economics, University of Prague.	-do-	Item 9 of 1966-68	-do-	17.2.67/ 11.3.67	Delhi, Calcutta, Bombay and Poona.	

p.t.o.

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1.	2.	3.	4.	5.	6.	7.	8.	9.
1967	50	Dr. Lazar Stoicescu	INDO-ROMANIA	Item 15 of 1967-69	30 days	19.11.67/ 18.12.67	Delhi, Roorkee, Chandigarh, Bombay, Baroda and Bangalore.	
1966	51	Dr. Tomov, Dean, Faculty of Medicine.	INDO-BULGARIA	Item 6 of 1965-66	3 weeks	29.11.66/ 21.12.66	Delhi, Agra, Calcutta, Bombay, Madras and Chandigarh.	
1967	52	Dr. Stefanov, Head of Soil Mechanics & Foundation Engg. Instt. of Civil Engg.	-do-	Item 5 of 1965-66	30 days	7.3.67/ 5.4.67	Delhi, Roorkee, Calcutta, Hyderabad, Madras, Bombay and Poona.	
-do-	53	Dr. Lozanov, Associate, Pedagogical Research Instt. of Bulgaria.	-do-	-do-	-do-	28.2.67/ 31.3.67	Delhi, Bombay, Madras, Jabalpur, Lucknow, Pondichery, Varanasi, Calcutta, Visakhapatnam.	
1964	54	Prof. Joswig (Economics)	INDO-G.D.R.	...	2 weeks	10.11.64/ 24.11.64	Delhi, Bombay, Madras and Calcutta.	
-do-	55	Prof. Lekshers (Criminal Law)	-do-	...	-do-	-do-	-do-	
1967	57	Prof. H. G. Mehn, Prof. & Head of the Chair of International Economic Relations, F.D.R.	-do-	Item 1 of 1967-69	-do-	20.10.67/ 12.11.67	Delhi, Jaipur, Udaipur, Bombay, Hyderabad, and Madras.	
1966	58	Dr. H. P. Schmidt, Member of Staff of Indological Deptt. University of Tbingen.	-do-	Ad hoc programme 1965-66	3 months	16.11.66/ 13.2.67	Delhi, Bombay, Madras, Trivandrum, Cochin, Bangalore, Mysore, Poona, Aurangabad, Ahmedabad, Hoshiarpur, Chandigarh, Allahabad, Banaras, Patna, Calcutta and Bhubaneshwar.	
<u>DELEGATION</u>								
1967	59	1. Prof. Mecklein, Rector, Technical University, Stuttgart.	-do-	Item of M/Edu. implemented by the Commission.		31.12.66/ 21.1.67	Bombay, Aurangabad, Madras, Calcutta, Banaras, Agra, Delhi and Jodhpur.	
-do-	60	2. Prof. W. Growth, Rector, University of Bonn.	-do-	-do-		31.12.66/ 15.1.67	Bombay, Aurangabad, Madras, Calcutta, Banaras, Agra and Delhi.	
-do-	61	3. Prof. H. H. Schacter, Hamburg University.	-do-	-do-		31.12.66/ 13.1.67	Bombay, Aurangabad, Madras, Calcutta, Banaras, Agra, Delhi and Chandigarh.	
-do-	62	Sir Frank Worrell (Late)	WEST-INDIES	Ministry of Education's Item.		31.12.66/ 4.2.67	Visited during Test Match places : Calcutta, Bangalore, Madras, Chandigarh. (Implemented on behalf of the Ministry of Education. 2021)	
	56	Dr. Spitzbardt (Mathematics & structural problems in Modern Linguistics FDR)				5.4.1965/ 21.4.1965	Delhi, Bombay, Poona and Calcutta	

2021.1.2 to 2.3.21
2021.4.15 Judd (20.2021)

Item 2 (a of 1965-66) about 21.4.1965

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated 6th March, 1968.

Item No. 24: To consider a proposal for assistance to Kala-Kendra, an institution recognised by Bhagalpur University.

...

The Bhagalpur University has forwarded with recommendations a proposal from the Kala-Kendra, Bahgalpur, for sanction of a non-recurring grant of Rs. 25,000 for purchase of equipment and instruments and a recurring grant of about Rs. 50,000 per annum for a period of five years towards teaching and non-teaching staff as detailed in Annexure I

The Kala-Kendra was set up in 1954 and recognised by the Bihar University for imparting training for the diploma examinations of the University in Fine Arts and Crafts, Music and Dance. Each diploma course is of 4 years' duration. The Kala-Kendra came within the territorial jurisdiction of the Bhagalpur University in 1960. The institution has been able to construct a stage and has undertaken the construction of a building which has already come up to the plinth level. It is reported that the Ministry of Education will consider assistance to the institution towards the completion of this building towards the end of the financial year. The State Government which pays ad hoc grant to the institution every year is not in a position to make any additional grant. The institution has therefore sought the assistance of the U.G.C. towards the purchase of equipment and the maintenance of teaching and non-teaching staff for a period of five years.

The Kala-Kendra, Bahgalpur, has so far not been recognised under Section 2(f) of the U.G.C. Act.

The matter is placed before the Commission for consideration.

E.O.(H)/D.O.(H)

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KALAKENDRA | BHAGALPUR
ESTABLISHMENT EXPENDITURE FOR THE FIRST TWELVE MONTHS

Annexure I to Item 24 103

S.No.	Name of the incumbent	Grade	Pay	Salary for 12 months.	D.A.	P.F.	Total	Increase in Establishment Expenditure during the next 12 months.			Total
								Pay	D.A.	P.F.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1.	Principal	350-25-550-EB-30-850	350	4,200	735	394	5,329	300	52-20	28	380.50
2.	Tutor in Drawing & Painting.	200-10-300-EB-15-450-	200	2,400	780	225	3,405	120	-	11	131
3.	Tutor in Modelling & Sculpture.	-do-	200	2,400	780	225	3,405	120	-	11	131
4.	Tutor in Vocal Music	-do-	200	2,400	780	225	3,405	120	-	11	131
5.	Tutor in Instrumental Music	-do-	200	2,400	780	225	3,405	120	-	11	131
6.	Tutor in Bharat Natyam	-do-	200	2,400	780	225	3,405	120	-	11	131
<u>INSTRUCTORS</u>											
1.	In Graphics & Designs	150-8-230-EB-12-350.	150	1,800	690	169	2,659	96	24	9	129
2.	In Crafts	-do-	150	1,800	690	169	2,659	96	24	9	129
3.	In Rabindra Sangeet	-do-	150	1,800	690	169	2,659	96	24	9	129
4.	In Manipur Dance	-do-	150	1,800	690	160	2,659	96	24	9	129
5.	In Table	-do-	150	1,800	690	169	2,659	96	24	9	129
6.	Drummer for Bharat Natyam	-do-	150	1,800	690	169	2,659	96	24	9	129
<u>OFFICE STAFF</u>											
1.	Head Clerk-cum-acctt.	70-3-85-EE-4-150-5-EB-3-150	101	1,212	540	113	1,865	48	12	5	65
2.	Second Clerk	60-2-20-EB-2-100	60	720	588	68	1,865	24	-	2	26
3.	Typist	-do-	60	720	588	68	1,865	24	-	2	26
<u>MENTIALS</u>											
1.	Peons - 2	22½ - 27½	22½	270	510	25	805	6	-	1	7
2.	Mali - 1	-do-	22½	270	510	25	805	6	-	1	7
3.	Night Guard - 1	-do-	22½	270	510	25	805	6	-	1	7
4.	Sweeper (part time)	30/-p.m.	30	360	-	-	360	-	-	-	-
											@ Rs.30/-p.m. fixed.
							45,700				1,947.50

Sd/-
PRINCIPAL KALA KENDRA, BHAGALPUR.

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968

Item No.25 To consider the basis of grants for correspondence courses.

The Commission, at its meeting held on 7th February, 1968 considered the reports of the Committee appointed by it to examine the proposals of the Punjabi and Rajasthan Universities to introduce correspondence courses through the medium of the regional languages. The Commission accepted the proposals 'in principle' but desired that the question of quantum of assistance and sharing basis may be brought up before the Commission at its next meeting (Resolutions No.25 and 70).

It may be mentioned in this connection that the Committee appointed by the University Grants Commission to consider the question of extension of correspondence courses to universities other than Delhi recommended that the Commission's assistance for buildings may be given to the universities on a 75:25 basis and in respect of recurring expenditure the Commission's assistance may be provided for the first five years on a 'cover the deficit' basis. Thereafter, it was expected that the scheme would become self-supporting. The report was received by the Commission at its meeting held on 4th October, 1967.

It is, however, felt that the payment of grants on the basis of deficit might create accounting difficulties since the income from fees and other sources will have to be taken into account. It might therefore, be advisable to pay grants in respect of the recurring and non-recurring expenditure approved by the Commission on a sharing basis. The University could provide the matching share from the fee income and other sources available to it. Since the assistance to the Universities of Rajasthan and Punjabi towards the introduction of correspondence courses will be available up to 1970-71, as in the case of other development schemes, the sharing basis may be 75% in the first-year, 50% in the 2nd-year, and 25% in the 3rd-year in respect of approved expenditure. This variation in the sharing basis has been suggested, as the fee income is expected to go up with increase in the number of students, undertaking the correspondence courses. In fact, in the Delhi University, demand for the courses was so great that even during the first-year of its operation, the scheme could become self supporting. In the case of the Punjabi and Rajasthan Universities, it is expected that the scheme would be in a position to meet its own expenditure in a period of four years.

It is suggested that grants to the Universities of Rajasthan and Panjabi towards the institution of correspondence courses may be paid for a period of four years subject to a ceiling of Rs.5.00 lakhs for each university for the period. Grants may be paid according to the progress of expenditure and needs of the University, taking into consideration the student enrolment and the income from fees and other sources from year to year. The Universities concerned may be requested to send a report on the implementation of the scheme together with a statement of the total income and expenditure every year.

The matter is placed before the Commission for consideration.

E.O.(H)/D.O.(H)

(40/1)3

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University Grants Commission
...

Meeting :

Dated : 6th March 1968

Item No. 26: To consider the reports of the Visiting Committees appointed by the U.G.C. to assess the Fourth Plan requirements of the Universities.
....

The U.G.C. at its meeting held on 5th July 1967 considered the Reports of the Visiting Committees appointed by the Commission to assess the Fourth Plan requirements of 47 universities and institutions deemed to be universities as indicated in Annexure I. In the light of the decision taken by the Commission, the allocation for the Fourth Plan period had been intimated to these universities/institutions deemed to be universities and they were requested to intimate to the Commission the programmes which they proposed to undertake within 70 per cent of the allocation. The proposals from the universities are being received and processed. Subsequently Visiting Committees visited 17 universities and institutions deemed to be universities.

The Commission at its meeting held on 7th February 1968 considered and accepted the Reports of the Visiting Committees in respect of the following four Universities/Institutions:

1. Aligarh Muslim University
2. Gujarat University
3. Indian Institute of Science
4. Jamia Millia Islamia.

The reports of the Visiting Committees in respect of the following universities/institutions deemed to be universities are attached:

- | | |
|---------------------|--|
| 1. Agra | 7. Roorkee. |
| 2. Bihar | 8. Varanasi Sanskrit Vishvavidyalaya |
| 3. Bhagalpur | 9. Visva-Bharati |
| 4. Kalyani | 10. Gurukul Kangri Vishvavidyalaya |
| 5. North Bengal | 11. Indian School of International Studies |
| 6. Rabindra Bharati | 12. Kashi Vidyapith |

The report of the Visiting Committee in respect of Birla Institute of Technology is under preparation.

The requirements of the following universities for the Fourth Plan have yet to be assessed:

- | | |
|--|------------------|
| 1. Berhampur | 5. Meerut |
| 2. Indira Kala Sangeet Vishvavidyalaya | 6. Sambalpur |
| 3. K.S. Darbhanga Sanskrit Vishvavidyalaya | 7. Saurashtra |
| 4. Kanpur | 8. South Gujarat |

These would leave out Agricultural Universities/Institutions which are assisted by the Ministry of Food & Agriculture.

The matter is placed before the Commission for consideration.

J.S.(A)

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Annexure - I

Universities

- | | |
|---------------------|-------------------------------|
| 1. Allahabd | 24. Madurai |
| 2. Andhra | 25. Magadh |
| 3. Annamalai | 26. M.S. University of Baroda |
| 4. Banaras | 27. Marathwada |
| 5. Bangalore | 28. Mysore |
| 6. Bombay | 29. Nagpur |
| 7. Burdwan | 30. Osmania |
| 8. Calcutta | 31. Panjab & V.V.R.I. |
| 9. Delhi | Hoshiarpur |
| 10. Dibrugarh | 32. Punjabi |
| 11. Gauhati | 33. Patna |
| 12. Gorakhpur | 34. Poona |
| 13. Indore | 35. Rajasthan |
| 14. Jabalpur | 36. Ranchi |
| 15. Jadavpur | 37. Ravi Shankar |
| 16. Jammu & Kashmir | 38. Sardar Patel |
| 17. Jiwaji | 39. Saugar |
| 18. Jodhpur | 40. Shivaji |
| 19. Karnatak | 41. S.N.D.T. Women's |
| 20. Kerala | 42. Sri Venkateswara |
| 21. Kurukshetra | 43. Udaipur |
| 22. Lucknow | 44. Utkal |
| 23. Madras | 45. Vikram. |

Institutions deemed to be Universities

1. Gujarat Vidyapith /
2. Tata Institute of Social Sciences, Bombay.

UNIVERSITY GRANTS COMMISSION

AGRA UN

Statement showing the financial implications of the recommendations of the Fourth Five Year Plan Visiting Committee arranged in order of priorities suggested by the Commission.

Faculties and Departments

(Rupees in Thousands)

Faculty/ Department	Staff				Cost		Deptt. Books	Equipment		Teaching Block Labs.		Other items including scholarships et	
	Prof.	Reader	Lect.	Others	Total	UGC share		Cost	UGC's Share	Cost	UGC's share	Cost	UGC Share
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Social Sciences and Humanities</u>													
Social Work & Sociology	1	1	-	-	71.4	71.4	50	-	-	-	-	54	34*
Hindi & Linguistics	1	-	-	-	41.4	41.4	60	25	25	-	-	59.55	39.78
<u>Science</u>													
Mathematics & Statistics	1	-	-	-	41.4	41.4	60	100	100	400	400	-	-
Physics	1	-	-	-	41.4	41.4	60	400	400	400	400	-	-
Chemistry	1	-	-	-	41.4	41.4	60	300	300	400	400	-	-
Botany	1	-	-	-	41.4	41.4	60	200	200	400	400	-	-
Zoology	1	-	-	-	41.4	41.4	60	200	200	300	300	-	-
Central Workshop	-	-	-	5 @	18.0	18.0	-	200	200	100	100	-	- @1 F
												Total UGC Share(Col.7+8+10+12+14)= 4166.5	
7	1	-	5	337.8	337.8	410	1425	1425	1900	1900	113.55	93.7	

- 1) U.G.C. Share for continuing schemes: i) Recurring 106
ii) Non-recurring 107
- 2) Schemes already approved during IV Plan
(Institute of Home Science & Household Arts): i) Recurring 362.5
ii) Non-Recurring 497.5

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Statement showing the financial implications of the
recommendations of the Fourth Five Year Plan Visiting
Committee arranged in order of priorities suggested
by the Commission.

(in thousands)

Remarks	General Schemes				Total UGC share 2 + 4 + 6	Remarks
	Schemes already approved during Fourth Plan		New schemes recommended by Visiting Committee			
	Cost	UGC Share	Cost	UGC Share		
	3	4	5	6	7	8
Rs. 35,000 for Section for field work,	-	-	-	-	-	
Rs. 12,000 for two Senior Research Fellow- ships for two years for the Project 'Tradi- tion of Continuity in Indian Society' and	200	200	47	47	47	One Assistant Librarian and three section incharge
Rs. 7,000 for stationery, books and contingencies for the above project.	-	-	200	150*	201	*UGC assistance for Girls Hostel - Institute of Home Science limited to Rs.1.5 lakhs
For completion of writing Sursagar, Dictionary of our Hindi and Urdu Dic- tionary of Hindi	400	200	100	100	100	
	600	400	517	497	948	

Summary of allocations (UGC share) to the Universities for the IV Plan

(Figures in thousands)

Part of Schemes already approved IV Plan	Recommended by Visiting Committee											Total 1 to 15	Grand Total	
	Posts	Library	Equipment	Deptt. Buildings	General	Students' Amenities	Staff residence	Misc.						
	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Foreman, 2 Mechanics 2 Glass Blowers one year.	60	225	112.8	-	810	1400	25	1900	-	250	200	140.7	-	-

CONFIDENTIAL

Report of the Visiting Committee
appointed by the U.G.C. to assess the
Fourth Plan Development Schemes of the
Agra University.

YES

The University Grants Commission appointed a Committee
consisting of the following members to assess the Fourth Plan
Development Schemes of the Agra University:

1. Prof. Bhide, V.G.
Deputy Director,
National Physical Laboratory,
New Delhi.
2. Prof. Dwivedi, H.P.
Head of the Department of Hindi,
Panjab University, Chandigarh.
3. Prof. Katre, S.M.
Director, Deccan College,
Poona.
4. Prof. Ramaswamy, L.S.
Head of the Department of Zoology,
Rajasthan University, Jaipur.
5. Prof. Srinivas, M.N.
Head of the Department of Sociology,
Delhi University, Delhi.

Officers of the Commission

1. Dr. J.N. Kaul,
Development Officer,
University Grants Commission, New Delhi.
2. Shri I.C. Menon,
Education Officer,
University Grants Commission, New Delhi.

1. The Committee visited the University on 27th-28th October 1967
and discussed the development schemes of the university with the
Vice-Chancellor and the Heads of Departments. The Committee met the

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representatives of teachers, and visited the Central Library, the Institute of Hindi Studies and Linguistics, the Institute of Social Sciences, the Hostels and the three local colleges, namely, St. John's College, Agra College and R.B.S. College.

2. The Agra University came into being in 1927 after bifurcation of the Allahabad University and 156 colleges were then under its jurisdiction. In 1966 the University and its affiliated colleges were further divided into Agra, Kanpur and Meerut Universities. At present the Agra University has 58 colleges affiliated to it and its activities are confined, except for three teaching institutes, to affiliation of colleges and conducting of university examinations.

3. The University has been directly running two teaching-cum-research institutes viz. the Institute of Social Sciences and the K.M. Institute of Hindi Studies and Linguistics. A third Institute viz. the Institute of Home Sciences and Household Arts will start functioning from January, 1968.

4. Of the 58 colleges, 17 have postgraduate teaching and research facilities in various subjects. The Agra College, Agra, the oldest institution in the city and established in 1825, has at present 16 departments, all of the postgraduate level, with an enrolment of nearly 4,000 undergraduate and postgraduate students. The St. John's College Agra was established in 1850 and postgraduate teaching was started 75 years ago. It has an enrolment of about 1300 students.

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There are at present 12 departments in the college - all of them of the postgraduate level. The Raja Balwant Singh College established in 1885 has expanded considerably in recent years. The College has undergraduate departments in all subjects and postgraduate department in Mathematics, in the city campus and the postgraduate departments in physics, chemistry, zoology, botany and agriculture have been shifted to the new location Bichipuri, 8 miles away from the city, in a campus of 250 acres which includes the agricultural farms attached to the Department of Agriculture as well as the Rural Institute.

THIRD PLAN GRANTS

5. During the Second Plan the University could not utilise the grants sanctioned by the Commission, leaving a spillover of Rs.0.79 lakhs. The Commission during the Third Plan approved development schemes of the university, involving an expenditure of Rs.13.39 lakhs as the U.G.C.'s share, including the spillover of Rs.0.79 lakhs from the Second Plan. The grants were for appointments of staff at the Institute of Social Sciences and the K.M. Institute of Hindi Studies and Linguistics, purchase of library books and journals, equipment, for the above two institutes, van, for field work, research projects, hostel, staff quarters and a guest house.

Spillover from the Third Plan:

6. The breakup of the spillover of Rs.2,13,511 from the

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third plan is given below:

	NR	(In Rupees)	Total
1) Science	-	-	-
2) Humanities	52,483	1,06,028	1,62,511
3) General Schemes Hostel for Boys -60)	51,000	-	51,000
	<u>1,07,483</u>	<u>1,06,028</u>	<u>2,13,511</u>

New schemes approved at the beginning of the Fourth Plan:

7. In addition to the above, the Commission approved certain schemes at the beginning of the Fourth Plan involving an expenditure of Rs.22.20 lakhs as given below:

	<u>NR</u>	<u>R</u>	<u>Total</u>
<u>Science</u>		(In Rupees)	
a) Institute of Home Science	8,95,000	7,25,000	16,20,000
b) Library Books (Basic Grant)	1,00,000	-	1,00,000
<u>Humanities</u>			
a) Library Books (Basic Grant)	1,00,000	-	1,00,000
<u>General Schemes</u>			
a) Staff Quarters for 20 lecturers and 8 professors.	4,00,000	-	4,00,000
	<u>14,95,000</u>	<u>7,25,000</u>	<u>22,20,000</u>

Of the above Rs.22.20 lakhs the Commission's share will be as follows:

	<u>NR</u>	<u>R</u>	<u>Total</u>
Institute of Home Science and Household Arts.	4,97,500	3,62,500	8,60,000
Basic Grants for Books and Journals in Science	1,00,000	-	1,00,000
Basic Grants for Books and Journals in Humanities	1,00,000	-	1,00,000
Staff Quarters for 20 lecturers and 8 professors	2,00,000	-	2,00,000
	<u>8,97,500</u>	<u>3,62,500</u>	<u>12,60,000</u>

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Continuing Schemes and new schemes already approved during the

Fourth Plan:

8. The commitments of the Commission for the continuing schemes as well as those already sanctioned during the Fourth Plan period thus amount to Rs. 14,73,511.

Fourth Plan proposals of the University

9. New proposals submitted by the University for the development of higher education and research during the Fourth Plan amounted to Rs. 98,928 lakhs. These included:

- (i) Strengthening of the Institute of Social Sciences and the K.M. Institute of Hindi Studies and Linguistics;
- (ii) Setting up of an Institute of Applied Sciences;
- (iii) Development of postgraduate teaching in the postgraduate colleges at Agra; and
- (iv) Development of the University Library.

10. The financial implications of the proposals are indicated at Appendix I.

11. The Visiting Committee considered the proposals of the University with a view to accommodating them within Rs. 60 lakhs of likely assistance of the Commission.

Institute of Social Sciences

12. The Institute of Social Sciences comprises the Department of Sociology including Social Work and the Department of Statistics and its activities are confined to postgraduate teaching and research. There are

4/10

- 6 -

at present 103 students enrolled in M.A. courses offered by the Institute, 43 in Sociology and 60 in Social Work and 21 in Statistics. The Department of Sociology has one professor, four readers, six lecturers and two field supervisors. The Department of Statistics has one professor, one reader and three lecturers. During the Third Plan period 306 candidates were awarded M.A. degree in sociology or social work and the Ph.D. degree was conferred on 22 candidates. During the same period 63 students passed out of the Department of Statistics; there was, however, no Ph.D. degree awarded by the Department. During the Third Plan the Institute completed 4 research projects. Three research projects are at various stages of investigation. The pass percentage of the Institute during the Third Plan was cent per cent in M.A. Sociology(Final) from 80% to 94% in social work and from 60% to 93% in Statistics.

14. The work of the Institute has been steadily increasing in volume and variety. Several intensive studies in social work and political sociology have been completed and some others are at various stages of completion.

15. Growth and development of the two inter-linked departments of sociology and social work have however been rather one of the important reasons for this, being that the social work department does not have a Professor, the Head of the Department being a Reader. In order to enable this department to raise its standard and attract scholars of a superior calibre, the Committee recommends (a) that the department of social work should be formed into a full-fledged departments with well-defined responsibilities and research and teaching programmes and (b) that a senior teacher of the rank of a professor be appointed

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to organise the work of the new department. Coordination and overall direction will continue to be provided, as at present, by the Director of the Institute.

16. The Committee was happy to note that the Institute's research and publication programme have been well received, both in India and abroad. It was understood that several research projects, already at an advanced stage, could not be implemented in the absence of adequate resources. The Director has at present under active consideration a research project on "Tradition of Continuity in Indian Society", which the Committee commends for assistance. Two senior research fellows, one in Sanskrit and one in Sociology, are recommended for a period of two years for completion of this project. It will also be necessary to provide a Reader to the sociology department, to cope with its increasing research and teaching work.

17. The Committee recommends a grant of Rs. 50,000 for books and journals. The Institute has asked for a separate grant of Rs. 35,000 for publication but it is felt that as far as possible these publications should be priced so that the Institute could recover the cost of publication. The question of separate grants could be considered by U.G.C. from time to time and on specific projects.

Financial implications:

	<u>RECURRING</u>
One Professor in Social Work (3 years)	Rs. 41,400
One Reader in Political Sociology (3 years)	Rs. 30,000
Two Senior Research Fellows (2 years)	<u>Rs. 12,000</u> Rs. 83,400

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NON-RECURRING

Books, stationary, contingencies etc. for Research Project	Rs. 7,000
Books for Library	Rs. 50,000
Station Wagon for field work	Rs. 35,000
	<u>Rs. 92,000</u>

Total R + NR Rs. 1,75,400

Details of the spillover schemes - III Plan of the Institute of Social Sciences may be seen at Appendix II.

K.M. Institute of Hindi Studies and Linguistics:

18. The Committee visited the K.M. Institute of Hindi Studies and Linguistics on 28th October and met the Director and members of the staff. According to the statutes of the University, the Institute is vested with the following functions:

- (1) To impart instruction for the degrees of M.A. in Linguistics and Comparative Literature, and for Certificates of Proficiency in modern Indian languages other than Hindi for persons whose mother tongue is Hindi and in Hindi for those whose mother tongue is not Hindi.
- (2) To organise research.
- (3) To arrange for the editing of old texts and publication of
 - (a) Old Hindi Texts,
 - (b) Standard works in Hindi in different subjects,
 - (c) Hindi translations of classics from other Indian languages, and
 - (d) a periodical journal.
- (4) To organise the preparation and publication of
 - (i) Standard Hindi Grammar, and
 - (ii) Dictionaries from Hindi into other Indian languages and vice versa.
- (5) To build up a library of Hindi books and journals.
- (6) To organise extension lectures.

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19. The Director explained the nature of the M.A. Course in Hindi which his Institute was conducting in relation to a similar course offered by other colleges of Agra University. It was understood that while the syllabus for four text papers was more or less similar but not identical, the other papers differed; in the course conducted at this Institute, the emphasis was laid on linguistics and knowledge of other Indian languages. The original regulation in the statute provided for two Indo-Aryan (other than Hindi) and two Dravidian languages, but at present only one each was being taught. During the current academic year there are 22 students in M.A. in Hindi and 8 in Linguistics. It was also mentioned that the Institute did not have the full sanctioned staff, one retired teacher and two U.G.C. Fellows (1 senior and 1 junior) had been assigned some teaching work in the Institute.

20. The Director admitted that the objective of the Institute was to conduct Linguistics-oriented research, to provide for the teaching and research in other Indian languages vis-a-vis Hindi and to provide for a really distinctive postgraduate course in Hindi which would be different from such courses offered by the colleges. But all these objectives could not be implemented for a variety of reasons including non-availability of staff and students.

21. The Committee was informed that of the 75 students registered for the Ph.D. degree, approximately 20 were resident and the rest were non-resident. The drop-out every year was nearly 33.3% of the total registration which appeared rather high to the Committee. The distribution of registered Ph.D. scholars among recognised guides appeared unusually high. It appeared that there was no regular meeting

of teachers and students, since the non-resident registrants could not keep this contact regularly although the regulation of the university provided for an attendance of 200 days by each Ph.D. candidate. Altogether, the number of students registered for both Ph.D.(75) and D.Litt(13) seems to be too large in relation to the number of staff members recognised to guide research.

22. Of the 21 sanctioned posts the Institute had been able to fill in only the following 16 posts: 1 Professor, 4 Readers and 10 Lecturers. Six posts of lecturers have not been filled in yet. It is very important that all the vacant posts should be filled in immediately and serious effort made to realise the objectives for which the Institute was founded.

23. With regard to the research projects continuing from the last plan period and which had been continued for the first year of the current plan, the Director indicated that he had not received any financial aid since April 1967 for the critical edition of Sursagar and he had therefore been forced to discontinue his work and staff on the project for the time being. If this assistance were made available to him now, he would be able to complete the project by August 1968, that is, approximately 9 months from the date of resuming the financial assistance. The Committee informed the Director that the question of providing publication grants would be examined and, if necessary, assistance would be given. Members then separately visited the Sursagar project and the laboratories attached to the Institute and had discussions with members of the faculty.

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24. The Committee feels that the Institute has not developed to the extent expected of it in terms of its objectives; in order that these may be properly fulfilled and the Institute become a leading centre in U.P. for linguistic and intra-language studies it is essential that the two main departments should be separated, each with a Professor at its head. The Committee found that the first Professor of the Institute was a Linguist and the present Professor specialises in Hindi textual criticism. For development of both subjects it is necessary that there should be a professor in each group one of whom may serve as Director. The reorganisation of the Institute may be achieved quickly by appointing a Review Committee in consultation with the U.G.C.

25. The Committee recommends that pending the report of the Review Committee the continuation of the two projects on Sursagar and the Descriptive Grammar of Standard Hindi be sanctioned in the current plan period, to be completed by December 1968 at the latest.

Review of Third Plan projects of the K.M. Institute

26. The Director was apprised of the Commission's decision that U.G.C.'s assistance for the posts sanctioned during Third Plan would terminate with effect from 31.3.67. The salaries of additional staff sanctioned upto this period as approved by the Commission was Rs.1,96,000 and for the Department of Linguistics Rs.89,644 on 100% basis. The Institute, however, did not fill all the sanctioned posts. On the basis of actuals only an amount of Rs.1,68,085 is due. Of this Rs.1,27,600 was paid till 31.3.66 and Rs.38,000 after 31.3.66. The balance to be paid during the rest of the Fourth Plan is Rs.2,485. Thus Rs.40,485 will be the first charge on Fourth Plan allocation of the Commission

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to the University. The details of spillover from III Plan are given at Appendix III.

Descriptive Grammar of Standard Hindi

27. The Commission had approved Rs.30,000 for preparation of a descriptive grammar of standard Hindi during the Third Plan, the Commission's share being Rs.20,000 and the Commission has so far paid Rs.15,335.86 (Rs.15,320 during the Third Plan and Rs.15.86 during the Fourth Plan) and the balance to be paid during the Fourth Plan is Rs.4,664.14. The total amount to be paid by the Commission during the Fourth Plan will thus be Rs.4,680 which will be the first charge on Fourth Plan allocation. The Institute has now requested for a grant of Rs.20,000 to meet the publication cost of this scheme. The Committee is of the view that the publication might be useful all over the country but in view of the special programme of production of books and reading materials the cost of publication may be met out of those funds. This could be translated into various regional languages also. It is however for the Commission to consider the publication grant on a scrutiny of the manuscript when it is ready.

Scheme of Critically Editing the Sursagar:

28. The Commission approved the research scheme for critically editing the Sursagar at a total cost of Rs.50,000, the Commission's share being Rs.33,333. The Commission has paid a grant of Rs.24,000 during the Third Plan and Rs.6124.34 early in the Fourth Plan. The balance to be paid during the Fourth Plan is Rs.3208.66, thus Rs.9,333 will be the first charge on the Fourth Plan allocations to the project in this regard. Against this the Institute has requested

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for a grant of Rs.23,269 from the Commission for the two years 1966-67 and 1967-68 on 2/3:1/3 basis out of the total expenditure of Rs.34,906. The expenditure for the two years indicated by the Institute Director may be seen at Appendix IV. The Director mentioned that in view of the Commission's directive that no further assistance be given to the project after 31.3.67, the Director has dispensed with the staff associated with the project and that if he is given further sanction he would take up the project for the current year. The Committee is of the view that while the work on Sursagar should be completed without further delay, the U.G.C. may be requested to go into the detail of the expenditure incurred so far on this scheme. According to the Committee, for this project the honorarium to the Chief Editor is not permissible. The expenditure on Sursagar project during 1966-67 will thus be Rs.22,046, the Commission's share being Rs.14,698. The estimates of Rs.10,460 for 1967-68 involved in completing the project, suspended by the Director pending Commission's decision are revised to Rs.8,660 deleting Supervisor's honorarium and the Commission's share will be Rs.5,770 on 2/3: 1/3 basis. The cost of publication of the scheme shown at Rs.30,400 should also be looked into by the U.G.C. according to prevalent practice after submission of the manuscript by the Institute. The Committee suggests that on approval of the scheme the Institute should be requested to complete the work which is nearing completion in about six months' time during 1968-69.

Fourth Plan Proposals:

29. The Institute had requested creation of two posts of lecturers during the Fourth Plan, but in the view of the Committee, the vacant 6 posts of lecturers should be filled in the first instance as

discussed earlier before creation of additional posts. The Committee recommends a grant of Rs.25,000 for language laboratory, tapes, films, photo paper, chemicals etc. and Rs.60,000 for books and manuscripts. As regards expansion of buildings, the Commission has approved a grant of Rs.20,000 on 100% basis during Third Plan for construction of extra rooms for laboratory and staff cubicals in the Hindi Institute. This has since been constructed.

Preparation of a Dictionary of Early Hindi:

30. Although there are a number of dictionaries in Hindi, none of them has been prepared on modern scientific lines of lexicography. The etymological portion of these dictionaries is particularly defective. The Institute therefore proposes to undertake this work. The Committee approves of the project but is of the view that this should be completed in three years' time. The estimates furnished by the Institute come to Rs.90,000 including cost of papers for printing of 2000 copies. Excluding the cost of publication, the Committee ^{2. 0000 rupees.} the following grant for this purpose on 2/3: 1/3 basis:

2 Research Assistants @ Rs.200 per mensem for 3 years	Rs.14,400
Books of Early Hindi	Rs. 750
Cards, paper, stationery, contingency and miscellaneous	Rs.3,500
	Rs.18,650

The Commission's share on this project for three years will be Rs.12,433, say, Rs.12,500.

Linguistic Study of Dialects of Early Hindi:

31. During the last 20 years researchers have brought out a large number of works unknown before belonging to the period (11th Cent. AD to 16th

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Cent. A.D.). The proposed study will be helpful not only in tracing the development and establishing the missing link of the history of various dialects spoken in the Hindi regions but also will this be useful in a correct appreciation and interpretation of the texts of the period. The financial implications of the project submitted are Rs.60,000, including Rs.20,000 for cost of paper and printing. Excluding the cost of publication, the Committee revised the estimates of Rs.40,000/- to Rs.10,200 as indicated below. This work also may be completed in three years' time.

One Research Assistant at the rate of Rs.200 per mensem for 3 years	Rs.7,200
Cards, stationery, contingency and miscellaneous.	Rs.3,000
	<hr/>
	Rs.10,200

The Commission's share on 2/3:1/3 basis during the period of three years will be Rs.6,800.

32. In regard to the cost of publication of the above project, the Committee suggests tht the Commission may consider publication grant on a scrutiny of the manuscripts when they are ready.

Financial implications:

	<u>NR</u>	<u>R</u>	<u>Total</u>	<u>UCC's share</u>	
1.Completion of the scheme of critically editing the Sursagar	30,706	-	30,706	20,468	2/3:1/3 basis
2.Language Laboratory	25,000	-	25,000	25,000	
3.Books & Manuscripts	60,000	-	60,000	60,000	
4.Preparation of a dictionary of Early Hindi	18,650	-	18,650	12,500	2/3:1/3 basis
5.Linguistic Study of dialects of Early Hindi	10,200	-	10,200	6,800	-do-
G. I. P. (to be reviewed)	1,44,556	-	1,44,556	1,24,768	
		41,400	41,400	41,400	
				<hr/>	
				1,66,168	

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Institute of Home Science and Household Arts:

33. The Commission has already approved the scheme for the Institute of Home Science and Household Arts at a total expenditure of Rs.16.20 lakhs (Rs.8.95 lakhs NR and Rs.7.25 lakhs R) of which the Commission's share will be Rs.8.6 lakhs (Rs.4.97 lakhs NR and Rs.3.62 lakhs R). A suitable site has been acquired by the University for this purpose and construction has just started. The building is expected to be ready by the middle of 1968. The Director has been appointed and necessary staff is being recruited to enable the Institute to start courses in Home Science and Household Arts from January 1968. Till the building is ready, classes will be conducted in the rooms available at the Institute of Social Sciences. The University has proposed an expenditure of Rs.2 lakhs for a women's hostel to accommodate 60 inmates. The Committee recommends acceptance of this scheme. The Commission's assistance will be limited to Rs.1.5 lakhs.

Proposal for setting up of new science departments at the Agra University:

34. Partly because of historical reasons and partly because of its location in Agra, the Agra University has not fulfilled its role in full measure as a teaching university. Its teaching arm was provided mainly by its affiliated colleges, several of them over a hundred years old. Some of the colleges have made a distinctive contribution to higher education in both arts and science subjects. But, by and large, teaching in the colleges, affiliated to the university, have remained without direct and effective leadership which is normally provided by the university teaching departments. It can be

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said that the pace of development and standards have been set for the university by its affiliated colleges. The role of the university has been limited to prescription of courses and holding of examinations.

35. With the "explosion" of knowledge on the one hand and shrinking resources on the other, the private colleges and indeed even the best of them cannot meet the challenge which teaching and research in higher education poses for them. The pattern of assistance available from the U.G.C. precludes any assistance to colleges which would develop them to recognised university standards. For obvious reasons, the State Government also would not be in a position to give some favoured treatment to the colleges. For instance, it would be difficult to introduce university pay scales in only some postgraduate colleges. This being so, the colleges will never hope to compete with university departments in recruitment and admission. The question of maintaining and improving standards will thus become increasingly more and more difficult. As the Education Commission has observed, "We have to recognise that the standard of first degree and other postgraduate work in the bulk of affiliated colleges cannot be, in general, the same as that of the education in university departments. The latter will usually have a more balanced combination of teaching and research than the colleges, better students, better qualified staff and better resources."

36. Teaching, research and extension are the major responsibilities of a university. It has not been possible for the Agra University to discharge these functions in a satisfactory way. The result is that the university continues to be primarily a

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collection of colleges and not a community of scholars working in close cooperation on a campus. Far from exercising enlightened leadership, the University has necessarily to remain a passive spectator. The only authority it has on the affiliated colleges flow from its statutory obligations, not from example or successful experimentation.

37. It was against this background that the university has proposed setting up an Institute of Applied Sciences at an estimated cost of Rs. 57.92 lakhs. The University feels that the time is ripe for an additional institute for training students to fill up the lacuna in manpower for the growing industrialization of agriculture. The University has proposed to develop postgraduate teaching and research in 5 subjects, namely Applied Physics, Applied Chemistry, Applied Zoology, Applied Botany and Applied Mathematics. The papers in Physics and Chemistry will be such as are not being taught in the IITs or other kindred institutions and Applied Zoology, and Applied Botany will be such as are not taught in the Agricultural Colleges. Applied Mathematics will be a common factor for the other 4 sciences, but differing in nature. For instance, in Applied Zoology and Applied Botany, Statistics will have to be taught while in Applied Physics, Applied Chemistry, Mathematics will be taught.

Courses of Studies and Examinations:

38. A student who joins the postgraduate classes will have to take three subjects, unlike the present courses at the postgraduate level. Among the three subjects, one will be main and two subsidiary. There will be eight papers in the main and two each in the subsidiary subjects. The duration of the course proposed is 3 years. The courses will be so

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provided that a student passing out from this Institute should be able to be absorbed easily in any of the industrial concerns of the country or in any agricultural complex.

Staff:

39. These five departments will be situated in one building and will be autonomous, but will have a Director, who will be one of the Professors, to coordinate the working of all the Departments. Each Department will have a Professor, two Readers and 3 lecturers. There will be a Central Workshop and it will be necessary for every student to undergo a period of training in the workshop. Unconnected with the workshop will be four extra Technicians who will be assigned to each of the Departments having practicals. The duty of the Technicians will be to see that every apparatus is in working order.

40. The Committee discussed the proposal with the Vice-Chancellor, the Principals of the three local colleges and the staff of the university teaching departments. It was quite clear that the scheme would run into several difficulties. First, it was doubtful if the proposed courses could attract any large body of talented students in view of its 3-year duration. Secondly, the employment prospects of the successful candidates, in several of the proposed courses, seem undefined. Thirdly, some of the applied science courses proposed to be started were already being offered by some universities and technological institutes. Fourth, assistance for some courses would have to be considered by the AICTE and not directly by the U.G.C. Fifthly, and most important, the university would not be in a position to

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provide leadership in teaching and research in the basic sciences. The Vice-Chancellor was in broad agreement with these views and he gave the Committee a revised proposal which is discussed below.

41. The revised proposal envisages opening of five postgraduate departments in Physics, Chemistry, Botany, Zoology and Mathematics and Statistics with the important proviso that the university will concentrate for the present on those specializations which are not offered by the three local colleges. This proviso is suggested to allay the fear of the colleges with regard to the likely competition which university departments might generate. The Committee would support this proposal and consider that both in the short term and the long run, the presence of university departments of science would exercise a salutary and beneficial influence on postgraduate science teaching in the colleges. This would also enable the university to undertake postgraduate teaching on a cooperative basis with the colleges, a proposal which has been often discussed but never implemented. With these postgraduate departments in the basic sciences and the three institutes already functioning the university would establish itself as a full-fledged teaching university.

42. The Committee recommends that the university may be helped to set up five departments in the following science subjects during the current Plan. The Committee would have liked to recommend a provision of atleast Rs. 50 lakhs for this purpose but in view of

paucity of funds, the following assistance is recommended:

(1) Mathematics and Statistics (Building & Equipment)		Rs. 5 lakhs
(2) Physics	-do-	Rs. 8 lakhs
(3) Chemistry	-do-	Rs. 7 "
(4) Botany	-do-	Rs. 5 "
(5) Zoology	-do-	Rs. 5 "
(6) Central Workshop	-do-	Rs. 3 "
(7) Grants for Departmental Library		Rs. 3 "
(8) Salaries of 5 professors (3 years)		Rs. 2.25 lakhs
1 Foreman, 2 Mechanics and		
2 Glass Blowers (1 year)		
		Rs. 38.25 lakhs

NR	R	Total
36,00,000	2,25,000	38,25,000

The position of the staff for these departments may be considered by the U.G.C. when the Departments are ready for use.

Development of the Colleges:

43. The University has proposed creation of university professorships in the U.G.C. grade in four subjects at the Agra College in 4 subjects at the St. John's College and in 2 subjects at R.B.S. College. The Vice-Chancellor suggested that these professors may be selected according to the rules through selection committees constituted in accordance with University regulations but the professors would be located in the colleges and would be under the control of the university. The principals of the local colleges who had earlier supported the proposal expressed some doubts about the workability of the arrangement they feel that the professors should be under the control of the concerned colleges. There is no doubt that the colleges cannot attract with their present salary structure teachers of competence and unless they are helped in this regard, their standard will become hopelessly out-dated. The Committee agrees, in principle, that the university should be helped to locate its own senior teachers in a few key centres. This will bring the university

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a step closer to the function of teaching and research and also help the colleges to contribute their best. The Committee recognises that there will be some initial difficulties and problems of adjustment in locating university teachers in affiliated colleges but in view of the beneficial influence that this arrangement is likely to generate, the proposal should be given a fair trial. If however, the arrangement does not work, the university can withdraw these teachers and place them in its own departments.

44. The Committee recommends creation of 5 posts of U.G.C. professorships in the university to be located at the following colleges in the departments indicated against each:

Agra College - Physics (1)

St. John's College - Chemistry and Zoology (2)

R.B.S. College - Mathematics, city campus (1)

D.S.B. Govt. College - Botany (1)
Nainital.

45. The principals of the colleges, it was understood, had earlier accepted the recommendations of the U.G.C. Committee presided over by Prof. A.R. Wadia in 1964, in respect of cooperative teaching. The arrangements suggested above will afford facility of cooperative teaching in physics, chemistry, zoology and mathematics to the postgraduate students in those subjects at the three colleges. The Committee is not inclined to locate a university professor in the Bichipuri campus of the R.B.S. College in view of its distance from the city. The question of locating a professor in Agriculture at this or any other college does not arise as it is outside the purview of the Committee.

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46. The Vice-Chancellor suggested that the university professor in Botany may be assigned to the D.S.B. Government College, Nainital. The Committee agreed to this arrangement. The Committee is of the view that the 5 professors as mentioned in para 44, besides working in the colleges should help in the setting up and development of the five university departments.

Hostels:

47. The Committee visited the new hostel, the old hostel as well as the Girls' hostel on 28.10.67. The new hostel provides accommodation to research scholars of the Hindi Institute and the Institute of Social Sciences. There are 30 rooms of which 14 are occupied at present. In the old hostel there are 140 rooms with 114 postgraduate students. Each room can accommodate 2 students and when full can provide accommodation to 280 students. The kitchens are run by the students themselves on a cooperative basis.

Girls hostel:

48. The Committee visited the Girls hostel which has 45 single seated rooms with 34 occupants at present. There are thus 11 vacant rooms which can be occupied by the students of the Institute of Home Science and Household Arts when it starts function in January 1968. This arrangement may continue till the hostel recommended earlier for this Institute is ready for use.

49. There is a dispensary attached to the University and a physician is available for the inmates of the three hostels. The girls hostel however needs a full-time nurse and a part-time lady

doctor. The atmosphere in the hostel as well as the surroundings is dull and drab and there is considerable room for improvement. A reading room and a general library especially for the women students would be desirable. There is hardly any satisfactory provision in the university for student amenities. The need for such services will grow more urgent with the addition of new teaching departments. A sum of Rs.1,00,000 is recommended for such services. The university may draw up a scheme in consultation with the U.G.C.

Central Library:

50. There are at present 87458 books in the Library, 836 periodicals of which 316 are subscribed and 520 are obtained on exchange on free basis. It is reported that the library has 1210 borrowers, 700 students and 500 teachers and research scholars. Non-registered readers who use the library is 348. The average number of books issued per day is 110. The average number of books and journals consulted in the library per day is 70. The library remains open for 12 hours on working days and 6 hours on non-working days and remains open for about 350 days during the year. There is seating arrangement for 150 students at a time.

51. The strength of the library staff is 43, which consists of 7 professionals, 11 non-professionals and 25 others. Against 9 posts proposed by the university for the library, the Committee recommends 4 posts, one Assistant Librarian and three Section Incharges (one each for reference, periodicals and maintenance) as under:

Assistant Librarian (1)	Rs.400-30-640-40-800
Section Incharges (3)	Rs.290-15-350-20-400
	Rs.47,000 approximately

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52. The Committee also recommends Rs. 2,00,000 for books and journals in science and humanities, in addition to the basic grant of Rs. 2 lakhs for books already sanctioned for the Fourth Plan.

53. A suggestion was made that the Commission's assistance towards posts sanctioned during the Third Plan should continue for five years, with effect from the date of appointment in each case and not upto 31st March, 1967, as decided by the Commission. It was felt that since this is a policy issue which will have far reaching implications, the matter may be decided by the Commission on merits.

54. The financial implications of the recommendations of the Committee are as follows:

Summary of Recommendations

	NR	(U.G.C's share)	
		R	Total
(In Rupees)			
A) Continuing Schemes:	1,07,483	1,06,028	2,13,511
B) New Schemes approved in Fourth Plan	8,97,500	3,62,500	12,60,000
	10,04,983	4,68,528	14,73,511
(C) New Schemes recommended by the Visiting Committee			
1) Institute of Social Sciences.	92,000	83,400	1,75,400
2) K.M. Institute of Hindi Studies and Linguistics			
(a) Completion of Sursagar	20,468	41,400	61,868
(*) (14,698 + 5,770) (NR)			
(b) Laboratory	25,000	-	25,000
(c) Books & Manuscripts	60,000	-	60,000
(d) Preparation of early Hindi dictionary	12,500	-	12,500
(e) Linguistic study of dialects	6,800	-	6,800
	1,24,768	41,400	1,66,168
3) Five Science Deptts. books	30,00,000	2,07,000	32,07,000
Central Workshop	3,00,000	18,000	3,18,000
	36,00,000	2,25,000	38,25,000

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	NR	R	Total
4) Central Library	2,00,000	47,000	2,47,000
5) Hostel attached to Institute of Home Science	1,50,000	-	1,50,000
Student amenities	1,00,000	-	1,00,000
	<hr/> 2,50,000	<hr/> -	<hr/> 2,50,000

Total under C (1 + 2 + 3 + 4 + 5) = Rs. 46,63,568

Grand Total of U.G.C.'s share (A + B + C) = Rs. 61,37,079

or
Say Rs. 61.37 lakhs

(45)

APPENDIX I

A. Financial Implications of new proposals to be considered for IV Five Year Plan

	<u>Recurring</u> Rs.	<u>Non-Recurring</u> Rs.	<u>Total</u> Rs.
(a) Social Science Institute	4,79,916	1,00,000	5,79,916
(b) Hindi Institute	5,51,700	3,00,000	8,51,700
(c) Books & Journals for Library	2,00,000	-	2,00,000
(d) Providing Lifts in Library & Air-conditioning it.	-	3,00,000	3,00,000
(e) Additional Staff for Library.	1,69,217	-	1,69,217
(f) Girls Hostel for Home Science students.	-	2,00,000	2,00,000
(g) Auditorium	-	2,00,000	2,00,000
	<hr/> 14,00,833	<hr/> 11,00,000	<hr/> 25,00,833

B. Institute of Applied Sciences	22,92,000 @4,58,400 per year	35,00,000	57,92,000
Development of Postgraduate teaching in PG Colleges at Agra	9,00,000 @ 1,80,000 per year	7,00,000	16,00,000
	<hr/> 31,92,000	<hr/> 42,00,000	<hr/> 73,92,000
Grand Total	45,95,833	53,00,000	98,92,833

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AGRA UNIVERSITY

APPENDIX II

Details of spillover - III Plan

S.No.	Name of the Scheme	Approved Cost	U.G.C.'s share	Grants paid upto the end of Third Plan (31.3.1966)	Grants paid after 31.3.66.	Total columns 5 & 6	Balance to be paid during the rest of IV Plan	First charge on IV Plan allocations (Columns 6&8)	Remarks
2	3	4	5	6	7	8	9	10	
<i>(In Rupees)</i>									
<u>Institute of Social Sciences</u>									
1.	Purchase of Books	25,000	25,000	18,000	nil	18,000	nil	-	The balance will lapse.
2.	Purchase of equipment for Social Psychology	10,000	10,000	7,000	nil	7,000	nil	-	Unutilised balance will lapse.
3.	Construction of rooms for staff and psychological laboratory	32,754	32,754	24,000	2,974	26,975	8,754		
4.	Salaries of additional staff	2,81,000	2,81,000	1,50,000	60,000	2,10,000	5,542.65	65,542.65	The Commission's assistance ceased w.e.f. 31.3.67. The amount payable on the basis of actual expenditure upto 31.3.67.
	To meet the deficit for the year 1961-62	12,038	12,038	7,246	-	7,246	-	-	The net deficit for the year 1961-62 was Rs. 7246/- which was paid in 1963-64.

No. of posts approved

P	R	L	O
-	3	2	6

No. of posts filled in

P	R	L	O
-	3	2	5

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Details of Spillover from III Plan

APPENDIX III

No.	Name of the Scheme	Approved Cost	UGC's share	Grants paid upto the end of Third Plan (31.3.1966)	Grant's paid after 31.3.1966	Total columns 5 & 6	Balance to be paid during the rest of the IV Plan	First Charge on IV Plan allocations (Column 6 & 8)	Remarks
1	2	3	4	5	6	7	8	9	10

<u>Institute of Hindi Studies in Linguistics</u> (In Rupees)									
	Purchase of equipment	15,000	15,000	nil	nil	nil	nil	nil	Lapsed
	Publication and Editing of work of Hindi Literature	50,000	33,333	24,000	6,124.34	30,124.34	3,208.66	9,333.00	
	Descriptive Grammar of Standard Hindi, Institute of Hindi Studies	30,000	20,000	15,320	15.86	15,335.86	4,664.14	4,680.00	
	Purchase of Van with apparatus for field work	20,000	20,000	17,000	nil	17,000	3,000	3,000.00	
	Construction of extra rooms for laboratory and staff cubicals in the Institute of Hindi Studies and Linguistics	20,000	20,000	nil	nil	nil	nil	20,000	
	Salaries of additional Staff	1,96,000	1,96,000	43,000	34,000	77,000	1,441.88	35,441.88*	The Commission's assistance ceased w.e.f. 31.3.67 (AN). The amount payable is on the basis of actual expenditure upto 31.3.67.

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1	2	3	4	5	6	7	8	9	10
7. Development of Deptt. of Linguistics (Staff)	89,644.00	89,644.00	84,600.00	4,000.00	88,600.00	1,044.00	5,044.00		
8. Development of Manuscripts Section	2,700.00	2,700.00	2,700.00	nil	2,700.00	nil			A sum of Rs.155.21 was refunded by the University during the IV Plan.
9. Construction of Library Building	29,575.00	19,716.00	9,000.00	-	-	10,716.00	10,716.00		
10. Purchase of Library books III Plan	1,00,000.00	1,00,000.00	90,000.00	-	-	-	-		

No. of posts approved

P	R	L	O
-	2	4	2

No. of posts filled in

P	R	L	O
-	2	3	2

K.M. INSTITUTE OF HINDI STUDIES AND LINGUISTICS
AGRA UNIVERSITY

SURSAGAR PROJECT

<u>1966-67</u>	Rs.
1. Honorarium to the Chief Editor 1.4.1966 - 30.3.1967 @ 200/-	2,400
2. Salary of Two Senior Asstt. @ 200/- One upto 30.4.1966 - 200/- One for 12 months 1.4.1966 - 30.3.1967 - 2400/-	2,600
3. Salary of 4 Res. Asstt. @ Rs.150/- 1.4.1966 - 31.8.1966 31.9.1966 - 31.3.1967	7,200
4. Typists Four: One 1.5.1966 - 31.10.1966 @ 150/- Two 1.9.1966 - 31.3.1967 @ 150/- One 1.9.1966 - 31.3.1967 @ 140/-	900 2,100 980
5. Collection of Material -	70
6. Audit Fee	300
7. Salary of Res. Asstt. Junior (April 1966)	2,200
8. Salary of Res. Asstt. Junior @ 150/- Three 1.9.1966 - 31.3.1967	3,150
9. Disbursement on 1.4.1966	2,055
10. Miscellaneous	491
	24,446

1967-68

1. Direction. Supervisor 1.4.67 - 31.12.1967	1,800
2. Salary of one Senior Research Asstt. 1.4.67 to 30.9.67 @ 200/-	1,200 3,600
3. Salary of 4 Research Asstts. @ 150/-	3,600
4. Four Typists @ 150/- 4 x 150 x 6	3,600
5. Miscellaneous	260
	10,460

SUMMARY

	1966-67	1967-68	Total
U.G.C.	16,297	6,972	23,269
Own (1/3)	8,149	3,487	11,636
Total Expenditure	24,446	10,460	34,906

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ANNEXURE I

UNIVERSITY GRANTS COMMISSION

BIHAR UNIVERSITY, MUZAFFARPUR

Statement showing the approved items and estimated expenditure of IV Plan development schemes of Bihar University.

I. Facilities and Departments: (Rupees in Thousands)

Faculty/ Department	Staff Recommended				Cost Total	UGC Share	Depart- mental Books	Equipment Cost	UGC Share	Teaching Block/ Labs. Cost	UGC Share	Other Items including scholar- ships, fellow- ships etc.		Remarks
	Prof.	Reader	Lect.	Other								Cost	UGC Share		Cost	UGC Share
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. SCIENCE														
1. Mathematics	-	2	-	-	70	70	75	-	-	-	-	-	-	-
2. Chemistry	-	2	-	1	90	90	50	150	150	-	-	-	-	-
3. Botany	-	2	-	1	80	80	50	100	100	-	-	20	20*	*Glass House
4. Physics	-	2	-	-	70	70	50	150	150	-	-	-	-	-
5. Zoology	-	2	-	-	70	70	50	100	100	-	-	25	25+	+ Animal House
6. Central Workshop	-	-	-	3	40	40	-	40	40	-	-	-	-	-
Total (Science)	-	10	-	5	420	420	275	540	540	-	-	45	45	
B. HUMANITIES & SOCIAL SCIENCES														
1. Philosophy	-	1	-	-	35	35	20	-	-	-	-	-	-	-
2. History	-	1	2	-	75	75	40	10	10	-	-	-	-	-
3. Psychology	1	-	-	-	50	50	20	30	30	-	-	-	-	-
4. English	1	-	-	-	50	50	20	10	10	-	-	-	-	-
5. Urdu and Persian	-	1	1	-	55	55	15	2	2	-	-	-	-	-
6. Hindi	1	-	1	-	70	70	25	-	-	-	-	-	-	-
7. Economics	-	1	2	-	75	75	35	25	25	-	-	-	-	-
8. Pol. Science	-	1	2	-	75	75	20	-	-	-	-	-	-	-
9. Bangali	-	-	-	-	-	-	10	-	-	-	-	-	-	-
10. Sanskrit	1	-	-	-	50	50	15	-	-	-	-	-	-	-
11. Arts Faculty Building	-	-	-	-	-	-	-	-	-	600	600	-	-	-
Total (Humanities & Social Sciences)	4	5	8	-	535	535	220	77	77	600	600	-	-	-
Total: Col 7, 8, 10, 12, 14 = 2712														
Grand Total	4	15	8	5	955	955	495	617	617	600	600	45	45	

UGC Share for continuing schemes: Science (R + NR) = 937; Humanities & Social Sciences (R + N) 257
Grand Total: 1194

Schemes already approved IV Plan:

Basic Grants for Equipment: 420 (Physics 120, Chemistry 120, Botany 80, Zoology 80, Maths./Stats. 20)

Basic grants for books departments) 250

1. Self
2. (a) Bal
(b) Basic

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DELHI UNIVERSITY, MUZAFFARPUR

II - GENERAL SCHEMES

(Rupees in Thousands)

Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan	New Schemes recommended by Visiting Committee	Total UGC Share	Remarks
Cost	UGC Share	Cost	UGC Share	
400	10	65	400	
222	25	250	55	
	1000	25	25	
256	150	100	722	
40	300	150	406	
284	1100	550	834	
5*	10+	10+	15	Guest House + Furniture
1207	10	10	2880	
			1630	
			2847	

III - Summary of allocations (UGC Share) to the University for the IV Plan

(Rupees in Thousands)

Cost of Schemes already approved in IV Plan	Recommended by Visiting Committee														Total	Grand Total
	Posts	Library	Equipment	Dept. Bldgs.	General	Students	Staff	Misc.	Residence	Other	Other	Other	Other	Other		
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
680	420	535	745	540	77		600	600	700	125	4342	7423				

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CONFIDENTIAL

University Grants Commission

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Report of the Visiting Committee appointed to assess
the Fourth Plan development schemes of the Bihar University.

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The University Grants Commission appointed a Committee
consisting of the following to examine the Fourth Plan
development schemes of the Bihar University.

1. Dr. M.L. Roonwal
Vice-Chancellor
Jodhpur University.
- 2.* Prof. Kalidas Bhattacharya
Vice-Chancellor
Visva-Bharati.
3. Prof. F.C. Auluck
Physics Department
Delhi University.
4. Prof. S. Rangaswami
Department of Chemistry
Delhi University.
5. Prof. A.B. Lall
Head of the Department of
Political Science
Allahabad University.
6. Prof. Ram Vallabh
Head of the Department
of Mathematics
Lucknow University.
7. Prof. R.N. Saxena
Director
Institute of Social Sciences
Agra University.

Officers of the Commission

Dr. R.C. Gupta
Development Officer
University Grants Commission.

Dr. M.L. Mehta
Education Officer
University Grants Commission.

2. The Committee visited the University from 13th to 15th
November 1967 and discussed the development proposals of the
University with the Vice-Chancellor and the Heads of the
Departments. The Committee met the representatives of students

* Prof. Kalidas Bhattacharya could not visit the University.

and teachers and discussed their problems. The Committee visited various university departments, new buildings under construction, central library, health centre as well as the students' hostels. The Committee also visited the constituent colleges of the university located at Muzaffarpur and Dharbhanga.

UNIVERSITY

ACT

3. The Bihar University was established in 1960 in pursuance of the Bihar Act. XIV of 1960 with its headquarters at Muzaffarpur and territorial jurisdiction extending over the whole of the Tirhut Division. It is a teaching-cum-affiliating University.

FACULTIES

4. The University has at present eight Faculties - Arts, Science, Commerce, Law, Medicine, Engineering, Agriculture & Education having 15 university departments as mentioned below in the Faculties of Arts & Science:

<u>Arts</u>	: English, Economics, History, Hindi, Psychology, Philosophy, Sanskrit, Bengali, Urdu & Persian, and Political Science.
<u>Science</u>	: Botany, Zoology, Chemistry, Physics and Mathematics.

COLLEGES

5. Forty-seven colleges providing teaching facilities upto first degree in Arts, Science, Commerce, Law, Medicine and Agriculture are affiliated to the University. This includes five constituent colleges, namely, C.M. College, Dharbhanga, L.S. College, Muzaffarpur, M.D.D. College, Muzaffarpur, Rajendra College, Chapra and R.D.S. College, Muzaffarpur. The affiliated colleges include six professional colleges one each in Agriculture, Engineering, Law and Medicine and two in Education.

ENROLMENT

6. The change in student enrolment during the years 1961-66 in respect of the constituent colleges is given below:

<u>1961-62</u>			<u>1962-63</u>			<u>1963-64</u>		
U.G.	P.G.	Total	U.G.	P.G.	Total	U.G.	P.G.	Total
3259	925	4184	3082	1100	4182	3131	1542	4673

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1964-65			1965-66		
U.G.	P.G.	Total	U.G.	P.G.	Total
3067	1582	4649	3153	2115	5268

TEACHERS

7. There are at present five Professors, twenty-five Readers and 135 Lecturers in the L.S. College, Muzaffarpur. The change during 1961-66 was as under:

<u>Year</u>	<u>Professor</u>	<u>Reader</u>	<u>Lecturer</u>	<u>Total</u>
1961-62	2	7	104	113
1965-66	3	22	139	164

Recruitment for the various posts is made by the Syndicate on the recommendations of the Bihar Public Service Commission. The Third Plan pay scales recommended by the UGC have been adopted by the University. Scales of pay of teachers in affiliated colleges are: Lecturer - Rs.200-20-220-25-320-EB-25-670-20-750 plus C.L.A., Principal - Rs.500-1000 (plus C.L.A.). Appointments in affiliated colleges are made on the recommendation of the Bihar University Service Commission. Residential accommodation is provided for 4 Professors, 10 Readers and 4 Lecturers.

STUDENTS
AMENITIES

8. There are 18,539 students (15,972 undergraduate and 2567 postgraduate) in the constituent colleges of the University, of which 694 (undergraduate and postgraduate both) are living in the hostels and 455 in rented buildings approved by the University/Colleges. One postgraduate hostel for boys is under construction. A health centre which was built up during the Third Plan with the assistance from the University Grants Commission provides limited assistance to the students and the staff. Facilities for games and sports are not satisfactory. There is a university employment and guidance bureau which has been set up by the Govt. of Bihar in August 1964. The Bureau provides guidance to the students for finding suitable jobs, bringing them in touch with the employment market as well as rendering career and vocational guidance. There are two Youth Welfare Officers in the University. Youth Welfare Section has been entrusted with the duties of grow more food, NCC activities etc.

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RESULTS

9. The examination results in terms of pass percentage in various courses for the years 1961-66 are given in Appendix I. The results of B.A., B.Sc., B.Com. and M.Sc. are poor as compared with the all-India results.

THESES

10. The number of theses awarded for doctorate degrees during the years 1961-66 is shown below:

<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
6	8	24	25	58

THIRD PLAN GRANTS

11. The Commission during the Third Plan approved a total expenditure of Rs.38.86 lakhs as the USC share for the development schemes of the University, including a spill-over of Rs.7.48 lakhs from the Second Plan. These grants were made for the construction of the academic and non-academic buildings, appointments of staff, purchase of books and journals and laboratory equipment. The position of the staff sanctioned and appointments made in the Faculties of Arts and Science is shown below:

	<u>Posts sanctioned</u>	<u>Appointments made</u>
Science	2P, 2R, 9L	2P, 2R, 9L
Humanities & Social Sciences	1P, 5R, 14L	6R*, 14L

* One Reader appointed against the post of one Professor.

The grants for equipment and books could not be utilized fully because of the difficulty in obtaining import licences and foreign exchange etc. The construction of the buildings for the Departments of Physics, Chemistry, Botany, Zoology, Mathematics, Central Library, Staff Quarters and Teachers' Hostels have been undertaken. The progress of construction of these buildings during the Third Plan has been extremely slow and most of these buildings have not yet been completed (Appendix II). The following reasons were stated:

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- i) Delay in land acquisition as also in the selection of site for the construction of the university buildings.
- ii) Absence of suitable engineering staff of the rank of an Executive Engineer for supervision of the construction work of the university. The university has not been able to get the building programme projects executed through State P.W.D.
- iii) Procedure for obtaining the rates certificate from the Superintending Engineer, P.W.D.

COMMITTED AND CONTINUING EXPENDITURE

12.- Basic grants for books and science equipment have already been allocated to the University. The University was not able to utilize fully the provision agreed to by the Commission during the Third Plan for various projects. Details of the committed expenditure, paid or payable during the Fourth Five Year Plan in respect of continuing projects from the earlier Plan and the proposals already approved during the current Plan period are indicated in Appendix III and are summarised below:

<u>Scheme</u>	<u>Continuing Schemes</u>	<u>Basic Grants</u>	<u>New Projects</u>	<u>Total</u>
(Figures in lakhs of rupees)				
Science	9.37	5.70	-	15.07
Humanities & Social Sciences	6.57	1.00	-	7.57
General	8.07	-	0.10	8.17
Total:	24.01	6.70	0.10	30.81

Figures given above do not include the grants made to the colleges, unassigned grants for various projects such as exchange of teachers, extension work by university teachers, travel grants for attending conferences, seminars etc. as they are allocated separately. Committed expenditure as stated

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above including the basic grants for books and equipment approved after 31.3.1966 according to the policy of the Commission is to be treated as first charge on the Fourth Plan allocation to the University. It may be stressed that the continuing projects from the Third Plan have to be completed as soon as possible.

FOURTH PLAN PROPOSALS

13. The Fourth Plan proposals made by the University require an outlay of Rs.89.19 lakhs. This relates to the strengthening of the existing departments by providing more staff, books and journals, equipment and buildings - academic as well as non-academic. Provision has also been made for the appointment of more staff and construction of hostels, health centres and staff quarters in some colleges located at Dharbhanga, Chapra, Muzaffarpur and Motihari. It is proposed to institute postgraduate teaching in Home Science at the M.D.D. College, Muzaffarpur. There is also a proposal for opening of new postgraduate departments in Arts and Science at the C.M. College, Dharbhanga. The University desires to appoint 25 Professors (fourteen posts by conversion of Readers into Professors), 24 Readers and 30 Lecturers. The University was requested to formulate its Fourth Plan proposals in two priorities upto Rs.40 lakhs in the first priority and Rs.20 lakhs in the second.

14. The Vice-Chancellor, Deans of Faculties, Heads and other teachers of the Departments in the course of their discussion with the Visiting Committee inter-alia emphasised the following points:

- i) The Third Plan was really the first development Plan of the University. It is essential to strengthen and improve postgraduate teaching and research so as to improve quality. The University attaches topmost priority to the strengthening of the existing

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- departments during the Fourth Plan period by providing senior teaching staff, library books and journals and laboratory facilities.
- ii) The accommodation available for most of the departments in the Faculty of Arts is very inadequate. Similarly, residential accommodation for the staff and students falls too short of the requirements of the University. More buildings for housing the departments and also staff quarters and hostels are to be provided during the Fourth Plan period.
 - iii) The University had to meet certain expenditure out of Fourth Plan basic grants for the commitments made prior to 31.3.1966 towards equipment and books as a result of which science departments would not derive full benefit of the basic grants.
 - iv) The ratio between the senior to the junior teachers in most of the university departments is low. Many of them do not have any Professorship. It would be desirable to improve this ratio and provide Professorship in every department as far as possible for the proper promotion and coordination of teaching in the departments. The University statutes provide that at least 25% of the total number of posts of teachers in each department be those of Professors or Readers. The highest priority has therefore to be given in the Fourth Plan towards the appointments of Professors and Readers
 - v) It is necessary to provide more amenities for students and teachers in the university. Emphasis has therefore to be placed on hostels, health centre, students' home, non-resident students' centre and teachers' quarters.
 - vi) Since the present engineering unit is not functioning satisfactorily, it would be preferable to get the

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construction projects executed through the State F.W.D., if this could be arranged.

- vii) Some floating posts of Professors and Readers should be sanctioned so that promotions to highly qualified teachers of the University may be given even if there are no vacancies. This may be done by upgrading some of the existing posts. The difference of cost of such posts should be met by the UGC on 100% basis.
- viii) Upgradation of 25% posts of the existing posts of Lecturers and Readers in the various departments to those of Readers and Professors.

15. The Committee makes the following general observations:

- i) Most of the university departments were established in the Third Plan. The Committee feels that it would be desirable for the university to strengthen and consolidate those departments in the first instance.
- ii) The execution of the various projects sanctioned by the UGC is distressingly slow. This is particularly true of the buildings. Most of the buildings sanctioned during the Third Plan have not been completed so far. This has also hampered considerably the growth of the university departments. The Committee strongly feels that the university may evolve a suitable machinery for the expeditious completion of the buildings. The science departments are presently housed in the buildings meant for the undergraduate classes at L.S. College, Muzaffarpur where the space available is very inadequate. In the case of Zoology and Botany departments the laboratories which were constructed for the BUC courses at the L.S. College are now being used for all classes upto M.Sc. The University should give topmost priority to the completion of the building

P.t.o.

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projects and transfer of the departments to these buildings. The USC may also review the construction programmes of the buildings at appropriate stages.

- iii) The research programmes of the different departments may be encouraged and accelerated.
- iv) The ratio between the senior to the junior posts in the university departments appears to be somewhat inadequate and needs to be improved particularly in the Faculty of Arts. The University may ensure that the persons appointed to the posts of Professors or Readers possess the requisite research qualifications and experience.
- v) The Third Plan Visiting Committee had recommended that for the undergraduate and postgraduate teaching in each discipline, there should be one integrated department under a single Head. It was stated that under the constitutional provisions in the Act of the University, it was not possible to have a single integrated department for postgraduate and undergraduate studies. However, the Committee noted that an active academic collaboration between the postgraduate and undergraduate departments is encouraged.
- vi) Except for a few departments, the libraries of most of the departments are ill-equipped. For an effective postgraduate teaching and research, it is essential to improve the departmental libraries.
- vii) The Committee observed that the maintenance grants which were fixed a few years ago have remained stationary though the number of students has increased and the cost of materials has gone up. The Committee suggests that the University may take up the matter with the State Govt. regarding maintenance grant.

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- viii) The construction of the building of the central library sanctioned during the Third Plan has just been started. At present, the central library has been housed in a private building where there is an acute shortage of space. The library does not seem to be properly organised. It does not have adequate and qualified staff. No proper library services are organised for students and teachers. The Committee feels that the question of organisation of the library needs to be very carefully examined and suggests that the university may appoint a committee for looking into the question of organisation of the library. The building of the central library has to be completed expeditiously so that the library services may function effectively.
- ix) Enough attention does not seem to have been given to the welfare of students. The facilities available are not adequate for the students and teachers. Hostels are also not properly maintained. The living conditions in the hostels must be improved.
- x) It appears that the university does not have an efficient machinery for carrying out its various development programmes. The Committee is of the view that the university may appoint a suitable development committee to look into the question of formulation and implementation of the development proposals of the University.
- xi) There are proposals which have been submitted by the University such as general schemes, administrative office, works department, campus development etc., for which the UGC gives no assistance. The Committee

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suggests that the University should approach the Govt. for assistance in this regard since grants are not made by the UGC for these purposes.

xii) The Committee gathered the impression that the office administration of the University needs strengthening and reorganization.

xiii) The University has requested assistance for providing more staff, books and journals, hostels and staff quarters in its other constituent colleges, namely, C.M. College, Dharbhanga, Rajendra College, Chapra, M.D.D. College, Muzaffarpur and B.D.S. College, Muzaffarpur. The C.M. College is being assisted by the UGC under its scheme of development of postgraduate studies in Humanities and Social Sciences during the Third Five Year Plan. The Committee suggests that since the proposals made by these colleges do not relate to strengthening of teaching and research in the university departments, they may be considered separately by the UGC under the Commission's policy for assistance to colleges.

xiv) The University appointed one University Professor each in the Departments of Economics, Political Science, History and Mathematics etc. at its own. The Committee felt that it was desirable for the departments to have Professorships, for their proper growth.

xv) The Committee understands that the Bihar University's problems have recently been the subject of an enquiry by a Committee appointed by the State Government of Bihar in 1966. The findings of the Committee have revealed a distressing state of affairs not conducive to the proper functioning of an institution of higher

learning. The report of the Enquiry Committee has also been brought to the attention of the UGC. It is hoped that the Commission would recommend suitable remedial measures to the State Government, in order to set matters right in this University and thus create necessary conditions for its teaching and research activities to progress on sound lines.

16. The findings and observations of the Committee are as under:

(A) FACULTY OF SCIENCE

DEPARTMENT OF
MATHEMATICS

The Department of Mathematics provides teaching facilities leading to M.A./M.Sc. and Ph.D. degrees. It also collaborates in the teaching programmes of the undergraduate courses being conducted in the L.S. College. There is one Professor, two Readers and three Lecturers in the Department and six Lecturers of the L.S. College also participate in the teaching programmes of the Department. The teaching load varies from 12-19 periods per week. The student enrolment is 100 in M.Sc./M.A.(Previous) and 100 in M.Sc./M.A.(Final). There are nearly 650 students in the undergraduate courses in L.S. College. Each postgraduate student takes up a syllabus of 8 papers, six compulsory and two optional. Facilities for the teaching of Real Variables, Theory of Numbers, Differential Geometry, Aerodynamics, Dynamics of Viscous Flow and Boundary Layer Theory, Quantum Mechanics, Theory of Relativity, Theory of Water Waves are provided for optional papers. The Department conducts and guides research in the subjects of Analysis, Fluid Mechanics, Quantum Mechanics, Theory of Relativity and Celestial Mechanics. Five research degrees were awarded during the Third Plan and 6 teachers are presently working for their Ph.D. degree. Twenty-three research papers were also published. There is an acute shortage of space in the department. The UGC has provided assistance to the University

during the Third Plan, for the construction of a separate building for the Department. The building is under construction and would solve the problem of accommodation when it is completed. The Department does not have enough journals and back volumes. The department proposes to continue and develop research programmes in Analysis, Fluid Mechanics, Quantum Mechanics, Relativity Theory and Celestial Mechanics. The Committee recommends that assistance may be provided for appointing two Readers as also for the purchase of books and journals (Rs.0.75 lakh).

DEPARTMENT
OF CHEMISTRY

The Department provides facilities for the teaching of Organic, Inorganic and Physical Chemistry. It also collaborates in the teaching programmes of the undergraduate courses in L.S. College. The student enrolment is 32 in M.Sc.(Previous), 32 in M.Sc.(Final), 7 in Ph.D. and 912 in B.Sc.(Pass and Honours courses) with a staff strength of one Professor, four Readers and eighteen Lecturers, including the teachers of the L.S. College. Five research degrees were awarded and 29 research papers were published by the staff members during the Third Plan. It was stated that the research work of the department suffered considerably for want of space and other facilities during the Third Plan. The building of the Department with the UGC assistance is under construction. The Department does not have many essential items of equipment needed for effective postgraduate teaching and research. It is proposed to have I.R. Spectrophotometer and U.V. Spectrophotometer during the Fourth Plan. The department has a fairly well equipped departmental library. The Committee is of the view that assistance may be provided for appointing two Readers (one in Inorganic and one in Physical Chemistry), and one Micro-Analyst. Provision may also be made for the purchase of books and journals (Rs.0.50 lakh) as also equipment (Rs.1.50 lakhs).

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DEPARTMENT
OF PHYSICS

The Department is presently housed in the building meant for conducting undergraduate courses in the L.S. College as a result of which there is "an acute shortage of space in the department which appeared to be a highly unsatisfactory arrangement. The building of the department is under construction and to improve the situation, it is most essential to complete the building early and to shift the Department there. Staff strength is of one Reader and four Lecturers and five Lecturers of the L.S. College also collaborate in the teaching programmes of the Department. The student enrolment is 16 in M.Sc.(Previous) and 16 in M.Sc.(Final) and 5 students are working for their Ph.D. degree. Teaching load is of the order of about 20 periods per teacher per week. The post of Professor is lying vacant. One research degree was awarded and 24 research papers were published. Research work is being done mostly in the field of Micro-physiology. The Committee suggests that the vacant post of Professor be filled up early in order to strengthen the research programmes of the Department. The departmental library is very poor and needs to be improved. The Committee recommends that for the strengthening of the department in the Fourth Plan, assistance may be provided for appointing two Readers. Provision may also be made for books and journals (Rs.0.50 lakh), equipment (Rs.1.00 lakh), glass house (Rs.0.20 lakh) and one Technical Assistant (photographer).

DEPARTMENT
OF PHYSICS

The Department provides teaching facilities for the B.Sc.(Hons.), M.Sc. & Ph.D. level. There are one Professor, three Readers and five Lecturers in the department. Student enrolment is 32 in M.Sc.(Previous), 40 in M.Sc.(Final) and 8 in Ph.D. The staff of the department also collaborates in the teaching programmes of the undergraduate classes of the L.S. College where there is an enrolment of nearly 900 students. Teaching load is of the order of 18-23 periods per week. Five

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teachers possess research qualifications. Research work is being done in X-ray Crystallography, Molecular Spectroscopy and Electronics. Four research papers were published during the Third Plan. Like other science departments, the space available in the department is inadequate. The Department has a fairly well equipped departmental library. The Committee suggests that the University may be assisted for appointing two Readers. Provision may also be made for books and journals (Rs.0.50 lakh) and equipment (Rs.1.50 lakhs).

DEPARTMENT
OF ZOOLOGY

The Department is housed in the Department of Zoology, L.S. College where there is an acute shortage of space like the Department of Botany as already state. The University should give topmost priority to the construction of the building of the department sanctioned during the Third Plan in order to promote its proper growth. Staff strength is one Professor, two Readers and one Lecturer. Six lecturers from the L.S., College also collaborate in the teaching programmes of the department. Student enrolment is 16 in M.Sc.(Previous) and 16 in M.Sc.(Final) and 7 in Ph.D. Research work is being done in the field of Entomology and Cytology. Three research degrees were awarded and 38 research papers were published by the staff members during the Third Plan. The library of the department is poor. The Committee recommends that for the strengthening of the post-teaching graduate and research during the Fourth Plan, assistance may be provided for appointing two Readers, purchase of books and journals (Rs.0.50 lakh), equipment (Rs.1.00 lakh) and for an animal house (Rs.0.25 lakh).

CENTRAL
WORKSHOP

The University has a small Central Workshop in the Department of Physics which lacks in essential technical staff as well as equipment. The Committee recommends that assistance may be provided for appointing one junior technician, one senior technician and one glass blower as well as for the purchase of essential equipment (Rs.0.40 lakh).

(B) FACULTY OF ARTS

DEPARTMENT OF
PHILOSOPHY

The Department provides teaching facilities for courses leading to M.A. & Ph.D. degrees. It also collaborates in the teaching programmes of the undergraduate course in the L.S. College. The staff of the university department/college consists of two Readers and seven Lecturers. Teaching load varies from 15-21 periods per teacher per week. Student enrolment is 50 in M.A.(Previous), 50 in M.A.(Final), 15 in (Hons.) and 15 in Ph.D. Three research degrees were awarded and 15 research papers were published by the staff members during the Third Five Year Plan. The Committee recommends one Readership and a book grant (Rs.0.20 lakh).

DEPARTMENT
OF HISTORY

The Department has specialised in Modern Indian History. Staff consists of one Professor, one Reader and six Lecturers. The student enrolment is 104 in M.A.(Previous) and 107 in M.A.(Final). Twenty research students were registered for the Ph.D. degree during the Third Five Year Plan period. Seven research degrees were awarded and a number of research papers were published by the staff members during the Third Plan, the field of research being Social, Economic & Political History of Modern India. It was stated that there is no provision for the special study of Ancient Indian History and Culture in this land of Vaisali due to shortage of funds. The Department lacks in books and journals as well as Micro-film Readers. The Committee recommends one Readership, two Lectureships and provision for books and journals (Rs.0.40 lakh) as well as equipment (Rs.0.10 lakh).

DEPARTMENT OF
PSYCHOLOGY

The Department has a student enrolment of 40 in M.A. (Previous), 40 in M.A.(Final) and 19 in (Hons.). It also collaborates in the teaching programmes of the undergraduate course at the L.S. College. Staff strength is one Reader and ten Lecturers. Teaching load varies from 18-21 periods per week. Twelve research students are also working in the Department.

Four research degrees were awarded and 20 research papers were published by the staff members during the Third Plan, the field of research being: General Psychology, Social Psychology, Child Psychology, Industrial Psychology, Psychology of Personality and Educational Psychology. It is proposed to start teaching and research in comparative psychology. The departmental library is poor in back issues of journals. The space available is also inadequate. The Committee recommends one Professorship and provision for equipment (Rs.0.30 lakh) as well as books and journals (Rs.0.20 lakh). The University may appoint librarian and other clerical staff from its own funds.

DEPARTMENT OF ENGLISH

The Department teaches upto postgraduate level and has a full-fledged course at the Bachelor's (Hons.) level as well. It has a comprehensive research programme and a number of researchers are engaged in doctoral work. The student enrolment is 75 in M.A.(Previous), 75 in M.A.(Final); 15 research workers are being guided in their research work by the staff of the department. The field of work is Literature of the 17th, 19th & 20th centuries. Ten research papers were also contributed by the staff during the Third Plan. The department proposes to introduce the teaching in English Group B (Old English and Language) at the M.A. level. It also wishes to arrange for the teaching of some modern languages especially French as an optional subject. The Committee recommends one Professorship and provision for equipment (Rs.0.10 lakh) as also books and journals (Rs.0.20 lakh).

DEPARTMENTS OF URDU & PERSIAN

The Department provides teaching facilities for M.A. and Ph.D. courses. It also collaborates in the teaching programmes of the L.S. College. The student enrolment is 10 in M.A.(Previous), 6 in M.A.(Final) and 183 in B.A. Urdu and 30 in Persian. Staff strength is one Reader and six Lecturers. Teaching load is 21 periods per teacher per week. Two research degrees were awarded during the Third Plan. Persian is taught.

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upto Honours stage only. The department teaches only one special group at the honours stage and three special groups at the M.A. stage. It was stated that there is an urgent need for the introduction of more special groups. The Committee recommends one Readership, one Lectureship and provision for the purchase of an Urdu typewriter (Rs.0.02 lakh) as well as books and journals (0.15 lakh).

DEPARTMENT
OF HINDI

The Department provides courses leading upto M.A. and Ph.D. degrees. The total strength of the staff is four Readers and seven Lecturers. Teaching load is nearly 27 periods per week. All teachers possess research qualifications and are doing and guiding research work. The fields of interest are: Drama, Novel and Linguistics Nirgun School of Hindi Poetry, Modern Poetry and Modern Prose, Fiction, Medieval Poetry, Textual Criticism etc. Two B.Litt. degrees and 11 research Ph.D. degrees were awarded under the guidance of these teachers. The Committee recommends one Professorship, one Lectureship as also provision for books and journals (Rs.0.25 lakh).

DEPARTMENT OF
ECONOMICS

The Department provides facilities for the teaching of Economics upto Honours, M.A. and Ph.D. level. The student enrolment is 130 in M.A.(Previous), 130 in M.A.(Final) and 31 in Ph.D. with a staff strength of one Professor, one Reader and eight Lecturers. Teaching load is of the order of about 14-21 periods per week. Ten research degrees were awarded and 9 research papers were published by the members of the staff during the Third Plan; the field of research being: Economic Growth and Planning, Monetary Economics, Labour Economics, Agricultural Economics and Indian Finance. The University has introduced teaching of Econometrics at the B.A.(Hons.) and M.A. stages but because of having no qualified Econometrician and Statistician on the staff, the teaching of the said course has been greatly handicapped. It also lacks in books and

journals and other essential equipment. The Committee recommends one Readership, two Lectureships and provision for books and journals (Rs.0.35 lakh), and equipment (Rs.0.25 lakh).

DEPARTMENT OF
POLITICAL SC.

The total staff consists of one Professor, one Reader and seven Lecturers. Teaching load is nearly 25 periods per teacher per week. Student enrolment is 135 in each year of the M.A. course and nearly 36 teachers were registered for the Ph.D. degree during the Third Plan. Eleven research degrees were awarded and a fairly large number of research papers were published by the staff members during the Third Plan. The fields of interest are: Political Theory, Political Thought, Party Politics and Administration, Politics and Indian Political Thought and Politics and Modern Government etc. Presently 24 research workers are working in the Department. The Committee recommends one Readership, two Lectureships and provision for books and journals (Rs.0.20 lakh).

DEPARTMENT
OF BENGALI

The Department provides courses upto B.A.(Hons.) level in Bengali. The staff strength is two Lecturers with a student enrolment of 2 in B.A.(Hons.) and 8 in B.A.(Pass). Students generally appear as private students at the M.A. level. It is proposed to introduce postgraduate teaching during the current Plan. The Committee feels that in view of other essential needs of the University and shortage of funds, the proposal for introducing the postgraduate teaching in the university may be deferred to a later plan period. It however suggests that assistance may be provided for the purchase of books and journals (Rs.0.10 lakh).

DEPARTMENT
OF SANSKRIT

The Department provides facilities for the teaching of Sanskrit upto B.A.(Hons.) and Ph.D. level. Staff strength is one Professor and six Lecturers with a student enrolment of 43 in M.A.(Previous), 43 in M.A.(Final) and 16 in research. Seven research degrees were awarded and two research publications were produced by the Department during the Third Plan, the field of work being Poetics, Grammar, Drama, Dharmashashtra

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and Durana. The Committee recommends one Professorship and provision for books and journals (Rs.0.15 lakh).

ARTS FACULTY BUILDING

It was stated that the growth and development of the university in Humanities and Social Sciences of the Bihar University have suffered considerably for want of accommodation. The classes are held in the Arts Faculty of L.S. College. Lecture halls are insufficient in number and sometimes large classes are assigned small rooms. Invariably the tutorial rooms are not available for postgraduate classes. Thus many classes have to be dropped. The Committee is of the view that the space available in the present building of the L.S. College, Muzaffarpur is highly inadequate for the needs of the university departments which are located there. The Committee therefore recommends that assistance may be provided for a separate block for the Arts Faculty covering an area not exceeding 25,000 sq.ft. with the UGC share upto Rs.6.00 lakhs including fittings, furniture and services. The building should be completed early.

(C) CENTRAL LIBRARY

The Central Library is presently housed in a small residential building. This arrangement was made in the month of February 1966, and prior to this the library was used to be housed in the administrative block of the university which was not a satisfactory arrangement. The construction of the building for the central library with the UGC assistance has been undertaken and it is likely to be completed in about two years time. Some arrangements for separate reading rooms for boys and girls students have been made in the present library building. The teachers and research workers consult books and other reading materials in the librarian's office. The average number of borrowers is 100 per day and the average of books consulted is 200 per day. There were 33,377 books on 31.3.1966 of which

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16,016 books were added during the Third Five Year Plan period. The number of journals was 61 and of this 45 journals were added during the Third Five Year Plan. The library remains open from 10 A.M. to 5 P.M. There is only one qualified staff (diploma holder) in the library. The Committee observed that space available in the present building is very inadequate. Many of the books were found lying on the floors. The reading rooms are small. The university should take urgent steps in completing the building of the central library and to shift the central library over there. For the proper functioning of the library, the Committee recommends one Librarian in the Reader's grade and one Assistant Librarian in the Lecturer's grade and assistance for the purchase of books & journals Rs.2.50 lakhs; (Rs.1.50 lakhs for Humanities and Social Sciences; Rs.1.00 lakh for Sciences) and for library equipment (Rs.0.25 lakh).

(D) GENERAL

HOSTELS

There are 1725 postgraduate students in the university departments. The University Grants Commission during the Third Plan provided assistance for the construction of one women's hostel for 75 students and two postgraduate hostels for 75 students each. One boys' hostel and the girls' hostel have been completed and occupied. The third boys' hostel is almost complete and would accommodate 75 students. A fairly large number of students are living in rented buildings approved by the university. In view of the shortage of hostel accommodation, the Committee suggests that assistance may be provided for constructing two more hostels for 100 students each (total UGC's share Rs.5.00 lakhs). Assistance may also be made for a students' home (Rs.1.00 lakh).

STAFF
QUARTERS

There are five Professors, 25 Readers and 135 Lecturers in the university departments at L.S. College, Muzaffarpur of

which 4 Professors, 10 Readers and 4 Lecturers have been provided residential accommodation. Quarters for 4 Professors, 8 Readers and 15 Lecturers as also one teachers' hostel to accommodate 18 Lecturers are under construction. The Committee recommends that in view of the shortage of residential accommodation available at Muzaffarpur, the University may be assisted for constructing more staff quarters (4 Professors, 8 Readers and 20 Lecturers). Assistance upto Rs.5.5 lakhs as the UGC share may be provided for the purpose and provision may also be made for a second teachers' hostel (Rs.1.50 lakhs).

MEETING WITH
THE STUDENTS

17. The Committee met student representatives and had detailed discussions with them about the maintenance of standards of teaching, students' welfare and the students unrest in the country. The students were of the view that the medium of instruction should be Hindi and enrolment in NCC be voluntary. Opportunities may also be provided to the students for doing national constructive work. Facilities for reading rooms, common rooms, hostels, dispensary, sports and library etc. are inadequate. Examination system needs to be improved. Contents of courses require careful revision. Messing system needs to be reorganized. Hostels are not properly maintained and there is an urgent need to reorganize the administrative machinery of the University. Some students stated that a students' counselling centre be started early in the University. Good books are not available and there should be programmes of direct contacts between teachers and students.

MEETING WITH
THE TEACHERS

18. The Committee met teachers representatives and discussed with them problems relating to their welfare, maintenance of standards of teaching and research in the university and students unrest. The teachers stressed for the early implementation of the Fourth Plan scales recommended by the Education Commission. It was stated that the Third Plan pay scales were implemented very late in the university and this has put the teachers to a great loss which should be compensated in some form or the other.

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They also stated that the teachers of the university should be given dearness allowance at the rates admissible for the teachers in the Central Universities. The teachers of the Bihar University are not getting any dearness allowance while the employees of the State Government in Bihar drawing salary upto Rs.2250/- are getting D.A. at the Central Govt. rate. Housing facilities or house allowance in absence of them should also be made available. Housing problem at Muzaffarpur is very acute. Teachers have to pay a considerable proportion of their salaries on house rent. The UGC, should, therefore, provide more funds for the construction of staff quarters. Unlike the teachers of the Central Universities, the teachers of Bihar University have not been getting house rent and city compensatory allowance. In order to give relief to them house rent and CCA be given to the teachers. The proportion of higher posts (Professors & Readers) to that of lower posts (Lecturers) is not satisfactory and needs to be improved. It was also stated that there is an urgent need for a teachers' hostel, an auditorium, immediate construction of the Buildings of the central library and of science departments. The teachers emphasised that there should be provision for automatic promotion. Those lecturers who qualify for the post of Readers should automatically be promoted and similarly Readers be promoted to that of Professors. Research is considerably handicapped in the university for lack of proper library and laboratory facilities. Research workers invariably go to other places in connection with their research programmes. Liberal assistance from the UGC for the purpose of travel would therefore be of great help. Many teachers from the affiliated colleges are doing research work in the university departments without getting any assistance from any source. It would be of great help if some research assistantships are provided for such teachers. The present allocation of unassigned grant and research

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scholarship is not at all adequate. The University, if possible, in view of its many problems, due to many factors, may also be given the status of a Central University. The teachers emphasised for an early completion of the various buildings of the university departments so as to shift the university departments presently located in the L.S. College, Muzaffarpur to their own buildings. The present accommodation available for the departments is inadequate and this has hampered the growth of the departments. The buildings need to be completed at the earliest. The health centre of the university does not provide sufficient facilities. These are to be expanded.

19. The Committee also met Bihar University employees' association when a memorandum was submitted to the Committee. The memorandum is as under:

i) "The Ministerial and inferior staff of this University are not paid the same pay scales as are admissible to the Secretariat employees of the State Government. The State Government have laid down an inferior pay scales for us. The State Govt. revised the pay scales of the Secretariat employees with effect from the financial year 1962-63 and paid the arrears in the revised scales with effect from the financial year 1964-65 but the revised scales (which are inferior to the Secretariat employees) were allowed to us with effect from 1966-67. Therefore, we request you to bring our pay scale on par with that of the Secretariat employees and pay the arrears from 1964-65.

ii) There is no facility for our residence and upto now, no steps have been taken by the State Government to construct staff quarters. Therefore, the UGC may please be requested to sanction suitable amount for the construction of the staff quarters.

iii) The medical facility available to the employees of this university is too meagre. Suitable grants be sanctioned for the purpose.

iv) That to ensure efficiency and promotion to the staff the UGC should sanction the creation of some superior posts.

v). The University Grants Commission should sanction loans to the non-teaching employees on easy terms to construct houses of their own.

vi) The University Grants Commission should, while preparing welfare schemes for the teachers and students of the universities, keep in view the welfare of the non-teaching staff, who also contribute to the advancement of higher studies."

ADMINISTRATIVE OFFICE

20. The University proposes to appoint additional administrative staff in the university office. The Committee suggests that the university may examine the position of the staff and provide additional staff. Since grants for administrative staff are not made by the UGC, the Committee is of the opinion that the university may take up the matter with the State Government.

ADMINISTRATIVE BLOCK

21. It was stated that ever since the headquarters of the university shifted from Patna to Muzaffarpur in August, 1960, the University has been making efforts for construction of its administrative block. The State Government also approved the proposal of the university and agreed to sanction grant on a phased programme. For the year 1961-62, the State Govt. released Rs. one lakh and in 1962-63 they released Rs. 2 lakhs for this purpose. Later on, the State Government desired that the project be deferred and the sum of Rs. 3 lakhs already released for the purpose be treated as their matching share for the cost of the postgraduate science block. At present, the university office is located in a rented building where the accommodation is very inadequate. Further, the university has to pay quite a substantial amount as the rent of the building. The Committee suggests that the university may take up the matter with the State Govt. for the construction of its administrative block.

STAFF FOR THE PRINTING PRESS

22. The building of the printing press for which the assistance was given by the UGC in the Third Plan has already been completed.

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The machinery has been purchased but not installed. It was stated that the university has requested the State Government to depute in the first instance a Superintendent to get the machinery installed and to help the university in finalising proposals for the consideration of the State Government for sanction of various categories of staff needed in the press. The Committee feels that an early set up of the printing press would be of great help to the university and therefore hopes that the university would take urgent steps in getting the services of a Superintendent for the press.

PAY SCALES OF STAFF IN THE UNIVERSITY

23. It was stated that the pay scales of university teachers were revised during the Third Plan and the pay scales of all the officers of the State Government have also been revised with effect from 1.4.1962. The scales of the officers of the university, however, still remain to be revised. The officers were of the view that their pay scales should be revised early in view of the soaring prices. It was stated that such staff of the university be given D.A. allowance at the Central Govt. rates.

FINANCIAL IMPLICATIONS

Since the university departments are doing postgraduate teaching and research, grants may be provided on 100% basis. The financial implications of the recommendations of the Visiting Committee are summarised in the following table (only UGC share):

Department	Recurring		Non-Recurring				Total	Total
	Staff	Cost	Books	Equip.	Bldg.	Miscellaneous			IR + NR

(Figures in lakhs of rupees)

A. Science

1. Mathematics	2R	0.70	0.75	-	-	-	0.75	1.45
2. Chemistry	2R, 1 Micro- Analyst	0.90	0.50	1.50	-	-	2.00	2.90
3. Botany	2R 1 Tech.	0.80	0.50	1.00	-	Glass House	0.20	2.50

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1	2	3	4	5	6	7	8	9	
4. Physics	2R	0.70	0.50	1.50	-	-	2.00	2.70	
5. Zoology	2R	0.70	0.50	1.00	-	Animal House	0.25	1.75	2.45
6. Central Workshop.	1 Sr. Tech. 1 Jr. " 1 Glass Blower	0.40		0.40			0.40	0.80	
Total:	10R, 1 Mi-cro-Anal-yst, 4 Tech. Asstt.	4.20	2.75	5.40	-		0.45	8.60	12.80

B. HUMANITIES & SOCIAL SCIENCES

1. Philosophy	1R	0.35	0.20	-	-	-	0.20	0.55
2. History	1R, 2L	0.75	0.40	0.10	-	-	0.50	1.25
3. Psychology	1P	0.50	0.20	0.30	-	-	0.50	1.00
4. English	1P	0.50	0.20	0.10	-	-	0.30	0.80
5. Urdu & Persian	1R, 1L	0.55	0.15	0.02	-	-	0.17	0.42
6. Hindi	1P, 1L	0.70	0.25	-	-	-	0.25	0.95
7. Economics	1R, 2L	0.75	0.35	0.25	-	-	0.60	1.35
8. Pol. Sc.	1R, 2L	0.75	0.20		-	-	0.20	0.95
9. Bengali			0.10	-	-	-	0.10	0.10
10. Sanskrit	1P	0.50	0.15	-	-	-	0.15	0.65
11. Arts Faculty Bldg.					6.00	-	6.00	6.00
Total:	4P, 5R, 8L	5.25	2.20	0.77	6.00	-	8.97	14.32

C. CENTRAL LIBRARY

Staff	Recurring	Non-Recurring			Total
		Books	Equip	Total	
1 Deputy Librarian I 1 Asstt. Librarian I	0.55	2.50	0.25	2.75	3.30

D. GENERAL SCHEMES

Item	Approved Cost	UGC Share
	(Figures in lakhs of rupees)	
2 Hostels (100 students each)	10.00	5.00
Students' Home	1.50	1.00

Staff Quarters	11.00	5.50
Teachers' Hostel	3.00	1.50
Total:	25.50	13.00

SUMMARY

A summary of grants recommended and those already committed in the Fourth Plan (only UGC share) is given below:

Head	Grants Recommended		Grants already committed
	B	I NR	
	(Figures in lakhs of rupees)		
Science	4.20	8.60	15.07
Humanities & Social Sciences	5.35	8.97	7.57
Central Library	0.55	2.75	-
General	-	13.00	8.17
Total:	10.10	33.32	30.81

Grand Total = 74.23 lakhs

The financial implications of the recommendations made amount to Rs. 74.23 lakhs against the ceiling of Rs.40 lakhs in the first priority and Rs.20 lakhs in the second priority suggested by the Commission. It may be pointed out that out of this allocation an amount of Rs. 30.81 lakhs is payable to the University in respect of all schemes and projects which have been continued from the earlier Plans to the Fourth Plan and those approved during the present Plan period.

25. The Committee puts on record its sincere thanks to the Vice-Chancellor, Heads of the Departments, University Authorities, staff and students for their help and cooperation in the work of the Committee.

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BIHAR UNIVERSITY

First charge on Fourth Plan allocation

Scheme	Amount approved as UGC share	Amount paid upto 31.3.1966	Amount to be as 1st Charge on IV Plan Allocation (UGC Share)
1	2	3	4
<u>A. Continuing Schemes</u>			
<u>N.R. Science (Buildings)</u>			
Physics	3,34,302	70,000	2,64,302
Chemistry	2,33,107	1,20,000	1,13,107
Botany	2,25,503	60,000	1,65,503
Zoology	2,19,578	65,000	1,54,578
Mathematics	1,14,583	25,000	89,583
	11,27,073	3,40,000	7,87,073
<u>Recurring</u>			
Staff	not indicated	--	1,50,000
Total Science:	11,27,073	3,40,000	9,37,073
<u>Humanities</u>			
<u>Non-Recurring</u>			
Construction of University Library Building	4,00,000	--	4,00,000
Printing Press	1,21,000	85,000	36,000
<u>Recurring</u>			
Salaries of additional staff	2,22,000	1,000	2,21,000
Total Humanities/ Social Sciences	6,22,000	1,000	6,57,000
<u>General Schemes</u>			
1. Construction of Women's Hostel for 75 students (including furniture)	2,25,900	1,30,000	95,900
2. Construction of 1st P.G. Men Hostel for 75 students.	1,27,450	95,000	32,450

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3. Construction of 2nd P.G. Men's Hostel for 75 students.	1,64,225 70,000 94,225
4. Staff Quarters (Four Professors, eight Readers and fifteen Lecturers)	4,32,852 1,50,000 2,82,852
5. Vice-Chancellor's House.	31,676 30,000 1,676
6. Teachers' Hostel (one block)	2,55,638 - 2,55,638
7. Guest House-cum-Staff Club.	1,00,000 95,000 5,000
8. Students Health Centre (Equipment & Building)	1,00,000 60,000 40,000
	14,37,841 6,30,000 8,07,741

B. Basic Grants

Science (Equipment)

Physics	1,20,000
Chemistry	1,20,000
Botany	80,000
Zoology	80,000
Mathematics & Statistics	20,000
Total:	4,20,000

Books & Journals (For all Science Depts.) 1,50,000

Humanities

Books & Journals	1,00,000
Total Basic Grants:	6,70,000

C. New projects sanctioned during the Fourth Plan

Publication	10,000
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APPENDIX I

EXAMINATION RESULTS

		No. appeared			No. passed			Pass %
		Boys.	Girls.	Total	Boys.	Girls	Total	
B.A.								
1961-62	(Hons.)	1066	-	1066	566	-	566	53.1
	(Pass)	3942	-	3942	1001	-	1001	25.3
1962-63	(Hons.)	1256	67	1323	887	53	940	71.1
	(Pass)	3849	-	3849	1549	-	1549	40.2
1963-64	(Hons.)	1394	74	1468	1080	61	1141	77.6
	(Pass)	3227	209	3436	1091	130	1221	40.2
1964-65	(Hons.)	1521	105	1626	1233	85	1318	81.2
	(Pass)	3088	216	3304	1882	130	2012	60.8
1965-66	(Hons.)	1492	108	1600	1127	85	1212	67.4
	(Pass)	2438	254	2692	1219	157	1376	51
B.Sc.								
1961-62	(Hons.)	231	-	231	121	-	121	52.3
	(Pass)	1117	-	1117	444	-	444	39.7
1962-63	(Hons.)	350	-	350	143	-	143	40.9
	(Pass)	950	-	950	230	-	230	24.2
1963-64	(Hons.)	437	2	439	214	2	216	47.2
	(Pass)	1037	5	1042	457	3	460	44.1
1964-65	(Hons.)	472	6	478	264	4	268	56.6
	(Pass)	1136	19	1155	544	17	561	48.5
1965-66	(Hons.)	543	10	553	207	8	215	38.8
	(Pass)	1329	30	1359	505	14	519	38.2
B.Com.								
1961-62	(Hons.)	63	-	63	51	-	51	80.9
	(Pass)	448	-	448	226	-	226	46
1962-63	(Hons.)	88	-	88	73	-	73	82.9
	(Pass)	335	-	335	182	-	182	54.3
1963-64	(Hons.)	102	-	102	86	-	86	84.3
	(Pass)	290	-	290	153	-	153	52.7
1964-65	(Hons.)	131	-	131	95	-	95	72.5
	(Pass)	276	-	276	99	-	99	35.8
1965-66	(Hons.)	138	-	138	104	-	104	75.4
	(Pass)	263	-	263	128	-	128	49
M.A.								
1961-62				639			529	82.7
1962-63				605			499	82.4
1963-64				802			720	89.7
1964-65				1024			914	89.2
1965-66				1016			903	89.4

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M.Sc.

1961-62	144	103	71.5
1962-63	144	103	71.5
1963-64	158	111	70.2
1964-65	187	145	77.5
1965-66	204	152	74.5

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APPENDIX II

STATEMENT SHOWING THE POSITION OF THE CONSTRUCTION PROJECTS OF BIHAR UNIVERSITY AS ON 13.11.1967

Name of Project	Present position of the project	Period during which it is likely to be completed.	Remarks
1. Teachers' Hostel	Foundation in progress	12 months.	
2. Central Library	Foundation in progress & materials collected at site.	12 months.	
3. Mathematics Block	Wall completed	Within 8 months if fund is available.	
4. Botany Block	Foundation excavation partly done.	12 months.	
5. Zoology Block	-do-	-do-	
6. Physics Block	R.C.C. foundation complete pedestal of all columns complete, 60% of plinth Beams and columns up to 4' height complete.	12 months.	
7. Chemistry Block	Wall complete.	9 months.	
8. Readers Quarter	R.C.C. roof of three quarters of G.F. and masonry of F.F. upto lintel level are complete. The work of remaining five quarters upto roof level of G.F. is also complete.	9 months	
9. Lecturers Quarters	Masonry work of 4 units upto E.F. level is complete. R.C.C. roof of one unit is complete.	9 months	
10. Professors Qrs.	Masonry work upto door lintal level of 4 quarters is complete.	12 months	
11. Printing Press	Work nearing completion	15 days.	
12. P.G. Girls Hostel	Completed.	-	
13. P.G. Boys Hostel No. 2	90% work completed	one month	
14. P.G. Boys Hostel No. 1	Completed	-	
15. Vice-Chancellor's Residence.	Completed	-	

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-: 2 :-

- | | | |
|---|--------------------|----------|
| 16. Guest House. | Completed. | - |
| 17. Health Centre | Completed. | - |
| 18. Construction of
road from L.S.
College to Municipal
Road near V.C.'s
Residence. | 90% work completed | 1 month. |

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APPENDIX LII

First charge on Fourth Plan Allocation

BIHAR UNIVERSITY, MUZAFFARPUR

	<u>Science</u>	<u>Humanities & Social Sciences</u>	<u>General</u>	<u>Total</u>
		(Figures in lakhs of rupees)		
Continuing schemes	9.37	6.57	8.07	24.01
Basic Grants	5.70	1.00	--	6.70
New Projects	--	--	0.10	0.10
Total:	15.07	7.57	8.17	30.81

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UNIVERSITY GRANTS COMMISSION

Statement showing the financial implications of the recommendations of the Fourth Plan Visiting Committee.

(Faculties and Departments)

(Figures in Lakhs)

Faculty/Department No.	Staff recommended				Cost		Deptl. Books	Equipment		Teaching Blocks/Labs.		Other Cost
	Prof.	Reader	Leet.	Others	Total	UGC share		Cost	UGC share	Cost	UGC share	
1	2	3	4	5	6	7	8	9	10	11	12	13
Humanities & Social Sciences:												
1. Commerce	-	1	1	-	55	55	10	-	-	-	-	-
2. Hindi	-	-	1	-	20	20	10	5	5	-	-	-
3. Rural Economics & Cooperation.	-	1	-	-	35	35	10	-	-	-	-	-
4. Sociology.	-	1	-	-	35	35	10	-	-	-	-	-
5. Labour & Social Welfare.	-	1	-	-	35	35	10	-	-	-	-	-
6. Political Science.	1	-	1	-	70	70	10	-	-	-	-	-
7. English.	-	1	-	-	35	35	10	5	5	-	-	-
8. Philosophy.	1	-	-	-	50	50	10	-	-	-	-	-
9. Economics.	-	1	1	-	55	55	10	-	-	-	-	-
10. History.	-	1	1	-	55	55	10	-	-	-	-	-
11. Psychology.	-	1	-	-	35	35	10	15	15	-	-	-
Science:												
1. Physics.	-	1	1	-	55	55	30	80	80	-	-	-
2. Chemistry.	-	-	2	-	40	40	30	80	80	-	-	150
3. Botany.	1	-	1	-	70	70	30	50	50	-	-	25
4. Zoology.	1	-	1	-	70	70	30	70	70	-	-	25
5. Mathematics.	-	1	-	-	35	35	30	-	-	150	150	-
6. Statistics.	-	1	1	-	55	55	30	7	7	-	-	-
Total UGC share (Cols.7,8,10,12&14) = 1757												
Total :-	4	11	11	-	805	805	290	312	312	150	150	200

- U.G.C. share for schemes continuing from Third Plan. Staff 596 Building 772
- Schemes already approved during Fourth Plan. 795
- Basic grant for equipment (departmentwise) : 420 (Physics 120 + Chemistry 120 + Botany 80 + Zoology 80 + Mat

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BHAGALPUR UNIVERSITY
APPENDIX II.

STATEMENT SHOWING THE FINANCIAL IMPLICATIONS OF THE RECOMMENDATIONS OF THE FOURTH FIVE YEAR PLAN VISITING COMMITTEE.

GENERAL SCHEMES (Figures in thousands)

Item	Continuing Scheme (UGC Share)	Schemes already approved during the Fourth Plan		New Schemes recommended by Visiting Committee		Total UGC Share	Remarks
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
CENTRAL LIBRARY							
a. Building	675	-	-	-	-	675	
b. Staff	-	-	-	35	17	17	1 Deputy Librarian in Reader's Scale.
c. Books	-	-	-	200	200	200	
Students' Hostel	492	-	-	-	-	492	
Students' Home N.R.S.C.	27	-	-	-	-	27	
Teachers' Hostel	182	-	-	-	-	182	
Health Centre	40	-	-	-	-	40	
Staff Quarters including V.C. residence.	71	-	-	-	-	71	
Others							
a. Guest House	100	-	-	-	-	100	
B. Printing Press	91	-	-	-	-	91	
Total	1678	-	-	235	217	1895	

APPENDIX III

SUMMARY OF ALLOCATIONS (UGC SHARE) TO THE UNIVERSITY FOR THE FOURTH PLAN.

(Figures in thousands rupees)

University/Institution	Committed expenditure on development.	Cost of schemes already approved in Fourth Plan.	Recommended by Visiting Committee										Total (4 to 14)	Grand Total (2+3+15)	
			Posts		Library		Equipment & Books		Dept. Buildings		General				
			Sc.	'H'	Bldg.	Books + staff	Sc.	'H'	Sc.	'H'	Students amenities	Staff Res.			Misc.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Bhagalpur	3046	1375	325	480	-	200	667	135	150	-	-	-	-	1974	6385

Report of the Visiting Committee of BHAGALPUR University.

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The University Grants Commission appointed a Visiting Committee consisting of the following to examine the Fourth Plan development schemes of the Bhagalpur University:

1. Dr. K. K. Datta,
Vice-Chancellor,
Patna University.
2. Dr. A. K. Datta,
Professor of Physics,
Calcutta University.
3. Dr. S. M. Das,
Professor of Zoology,
Jammu & Kashmir University.
4. Dr. D. D. Pant,
Professor of Botany,
Allahabad University.
5. Dr. S. Rangaswamy,
Professor of Chemistry,
Delhi University.
6. Dr. S. P. Verma,
Professor of Political Science,
Rajasthan University.

Officers of the UGC

1. Dr. R. C. Gupta,
Development Officer,
University Grants Commission.
2. Shri S. P. Gupta,
Education Officer,
University Grants Commission.

The Committee visited the University on 30th and 31st August, 1967 and discussed the development schemes of the University with the Vice-Chancellor and the Heads of the Departments. The Committee met the representatives of students and teachers and discussed their problems. The University library, health centre, postgraduate sections, new science blocks under construction, students' hostels etc., were visited. The Committee also had an opportunity to visit the local constituent colleges of the University, namely, T. N. B. College and Sundaravati Mahila College.

UNIVERSITY.

The University of Bhagalpur was established by the Bihar Act IV of 1960 and came into existence on the 12th July, 1960. Its jurisdiction extends over the whole of the Division of Bhagalpur comprising the districts of Bhagalpur, Monghyr, Purnea, Saharsa and Santhal Pargana.

The Bhagalpur University is a teacher-cum-affiliating University. It has at present 17 postgraduate departments, 3 Constituent and 45 Affiliated Colleges. Postgraduate instruction is being conducted by the University in the following subjects:

Physics, Chemistry, Mathematics, Botany, Zoology, Hindi, Statistics, Sociology, Labour & Social Welfare, Rural Economics and Cooperation, Commerce, Political Science, Philosophy, English, Economics, History, Psychology.

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The Constituent Colleges are T.N.B.College, Bhagalpur, Sundaravati Mahila College, Bhagalpur and R.D. & D.J.College, Monghyr. These are run and maintained by the University.

The affiliated colleges include 5 professional colleges, one each in Agriculture, Engineering and Law and two in Education.

Enrolment and Examination Results:

(a) The student enrolment in the various postgraduate departments is 1256. The student enrolment in the colleges is 25,468 out of which 3,872 are in the Constituent Colleges and 21,596 in the affiliated colleges. The enrolment figures for the last four years are shown below.

	1962-63			1963-64			1964-65			1965-66		
	U.G.	P.G.	Res.	U.G.	P.G.	Res.	U.G.	P.G.	Res.	U.G.	P.G.	Res.
Arts	12333	897	-	11853	827	-	12521	848	-	13397	895	13
Science	4161	57	-	6039	97	-	5986	82	-	7088	128	5
Commerce	605	139	-	945	122	-	942	106	-	1092	100	-

(b) Examination Results (figures in percentage):

	B.A.	B.Sc.	B.Com	M.A.	M.Sc.	M.Com.
1963(Annual)	39.6	28.2	50.1	95.0	75.8	100.0
1964(Annual)	42.9	33.5	66.0	76.8	29.8	92.4
1965(Annual)	49.8	46.3	40.8	80.7	47.9	58.8
Average All India Results.	50.4	46.7	51.1	80.2	78.2	73.9

(c) Number of thesis awarded for
Doctorate degree:

1961-62	....	3
1962-63	....	4
1963-64	....	3

TEACHERS

There are at present 5 Professors, 18 Readers and 57 Lecturers in the University postgraduate departments. Recruitment is made by the Syndicate on the recommendations of the Bihar Public Service Commission. The Third Plan pay scales recommended by the UGC have been adopted by the University with effect from 1964. A number of teachers in the postgraduate departments of the University do some teaching work in the undergraduate departments in the T.N.B.College, Bhagalpur and a few teachers of this college also share some teaching work in the postgraduate classes. Residential accommodation is provided for the following staff:

Professor	....	3
Readers	....	5
Lecturers	...	10

A teachers' hostel for 24 teachers is under construction.

STUDENTS' AMENITIES

Against the enrolment of 1,256 students in different postgraduate departments, the University has only one hostel for accommodating 113 students. A girls' hostel for 52 students is under construction. There

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is a Health Centre in the University which provides limited medical assistance to the staff and students. The building of the Non-Resident Students' Centre for postgraduate students is under construction.

THIRD PLAN GRANTS

The Commission during the Third Plan period approved an expenditure of Rs.29.10 lakhs as the UGC share for the development schemes of the University out of which Rs.12.21 lakhs were utilized by the University during the Third Plan. In 1960, when the University was established there were only six postgraduate departments, namely, Departments of Hindi, Statistics, Sociology, Labour and Social Welfare, Rural Economics & Cooperation and Commerce. Eleven more postgraduate departments were started during the Third Plan period. The Departments of political science, Philosophy and English came into existence in 1961, the Departments of Economics and Mathematics in 1962, the Departments of History and Psychology in 1963, the Departments of Physics and Chemistry in 1964 and the Departments of Botany and Zoology in 1965. Grants were sanctioned by the UGC during the Third Plan for the construction of buildings for the Departments of Physics, Chemistry, Mathematics and Statistics, Arts and Commerce Block, Printing Press, Central Library, Staff quarters, Vice-Chancellors' residence, boys and girls hostels and a teachers' hostel. The progress of construction of these buildings during the Third Plan has been extremely slow and a number of these buildings have not yet been completed. The University first took up the construction work under the charge of its own engineering section, but the work did not make much headway. From 1964 onwards, the construction work has been entrusted to the Bihar P.W.D.

CONTINUING SCHEMES AND NEW SANCTIONS:

The University was not able to utilize fully the provisions agreed to by the Commission for various projects during the Third Plan. To meet the urgent need of the University, basic grants amounting to Rs.1.50 lakhs for books and Rs.4.20 lakhs for science equipment were provided at the commencement of the Fourth Plan period.

FOURTH PLAN PROPOSALS

The University was earlier requested to divide its Fourth Plan programmes in two priorities upto Rs.40 lakhs in the first priority and Rs.20 lakhs in the second. The Fourth Five Year Plan proposals of the University placed before the Commission require an outlay of Rs.94 lakhs (Rs.72 lakhs for first priority schemes and Rs.22 lakhs for second priority schemes).

The proposals of the University relate to the completion of the schemes continuing from the Third Plan and new schemes to be taken up in the Fourth Plan. The University proposes to establish new postgraduate departments in Geography, Sanskrit and Urdu. Provision has been made in the proposals for amenities for the staff and students.

The financial implications of the proposals of the university are as follows:

Ist Priority Schemes

<u>Particulars</u>	<u>Recurring</u>	<u>Non-Recurring</u>	<u>Total</u>
	Rs.	Rs.	Rs.
(i) Humanities and Social Sciences.	9.73	2.38	12.11
(ii) Science	7.95	21.82	29.77
(iii) Hostel	-	9.70	9.70
(iv) Non-resident Centre	-	0.44	0.44
(v) Staff quarters including V.C. Residence.	-	0.32	0.32
(vi) Teachers' Hostel	-	4.17	4.17

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	<u>Particulars</u>	<u>Recurring</u>	<u>Non-Recurring</u>	<u>Total</u>
(vii)	Printing Press	-	0.89	0.89
(viii)	University Library	-	7.93	7.93
(ix)	College Library	-	1.91	1.91
(x)	Other Schemes	-	3.55	3.55

Second Priority Schemes

(i)	Humanities	1.11	0.55	1.66
(ii)	Science	0.58	10.88	11.46
(iii)	University Library	-	1.89	1.89
(iv)	Teachers' Hostel	-	3.00	3.00
(v)	Establishment of new postgraduate Deptts.			4.44

GENERAL OBSERVATIONS

The Vice-Chancellor, Bhagalpur University and the Heads of the Departments in the course of their discussions with the Visiting Committee inter-alia emphasised the following points:-

- (1) The Third Five Year Plan was really the first development plan of the University. Since the sanction of the UGC for the Third Plan development schemes was received by the University in 1963, the University could not substantially utilise the grants sanctioned within the remaining three years of the Third Five Year Plan.
- (2) There have been difficulties in completing the buildings. The first priority has to be given to completing the buildings which have already been sanctioned.
- (3) The staff position in the University is inadequate. There is need for appointment of additional staff. The University pointed out the difficulties in the regular appointment of teaching staff since the approval of the State Government has got to be obtained prior to appointments and the appointments are to be made on the recommendations of the Bihar Public Service Commission.

The Committee makes the following general observations:

- (1) Many departments have formulated programmes of considerable expansion. In view of the fact that most of these departments were established during the Third Plan, it would be advisable to strengthen and consolidate these departments before further expansion is undertaken.
- (2) The University may take expeditious steps to fill up the senior posts which have already been sanctioned.
- (3) The basic facilities have to be provided as soon as possible. The library building has been put up but the library has not yet started functioning.
- (4) In one or two departments, the number of research students per teacher seems to be relatively large. It would be desirable that the enrolment of research students should be commensurate with the facilities available in the respective departments and a teacher should not undertake to examine the work of more than 5 or 6 research scholars.

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- (5) There is need to consolidate the existing departments and provide the basic facilities. Under the circumstances, it may not be desirable to start new courses of studies.
- (6) The University may ensure that the persons appointed to the posts of professor or Reader possess research qualifications and experience.
- (7) The Third Plan Visiting Committee had recommended that for undergraduate and postgraduate teaching there should be one integrated department under a single head. It was stated by the University that owing to constitutional provisions in the Act of the University it was not possible to have single integrated departments for postgraduate and undergraduate studies.
- (8) The following three departments deal with related topics
 - (a) Rural Economics and Cooperation
 - (b) Sociology and
 - (c) Labour and Social Welfare.
 Close cooperation between departments in their teaching and research programmes is desirable.

- (5) There is need to NEW SCHEMES and RECOMMENDATIONS departments and provide the basic facilities. Under the circumstances, it may not be desirable to start new courses of studies.

PHYSICS

The Department of Physics was established in July, 1964. There are at present 2 Readers and 4 Lecturers in the Department. The Department has asked for an additional equipment grant of Rs. 2.8 lakhs, Rs. 0.79 lakhs for books and journals and 2 posts of Readers and 3 posts of Lecturers. One post of Professor was approved during the Third Plan which has not yet been filled up. An equipment grant of Rs. 0.80 lakhs and Rs. 30,000/- for books and journals may be made available during the Fourth Plan. Posts stated of one Reader and one Lecturer may also be sanctioned.

CHEMISTRY

The Department of Chemistry was established in July, 1964. The number of students in the M.Sc. classes is 8 each. During the Third Five Year Plan period, posts of one Professor, three Readers and three Lecturers were sanctioned. The Committee recommends that during the Fourth Plan, two posts of Lecturers, Rs. 0.80 lakhs for equipment and Rs. 30,000 for books and journals may be sanctioned. An additional grant of Rs. 1.5 lakh may also be sanctioned for a Gas Plant.

BOTANY

PHYSICS

The Department of Botany was established in July, 1965. The staff strength of the department is 2 Readers and 2 Lecturers. Eight students are admitted to the M.Sc. course every year. It has been noted that the Commission has already approved an expenditure of Rs. 6,90,244 for the construction of this building during the Fourth Plan. The Committee recommends that a grant of Rs. 25,000 for Botanical Garden, Herbarium and Museum, Rs. 0.5 lakhs for equipment, Rs. 30,000/- for books and journals and one post of Professor and Lecturer each may be sanctioned during the Fourth Plan.

ZOOLOGY

The Department of Zoology was established in July, 1965 with 2 posts of Readers and 2 posts of Lecturers. The number of students in the M.Sc. (Prey.) is 6 and in M.Sc. (Final) 7. The student is also registered for the Ph.D. degree. The Committee recommends a grant of Rs. 25,000/- for Museum, Rs. 0.5 lakhs for equipment, Rs. 30,000/- for books and one post of Professor and Lecturer each during the Fourth Plan period. The Committee further recommends that the Drosophila laboratory should expand its

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activities to genetics of fishes, and should take up chromosome studies and hybridisation in fishes. This laboratory may be renamed as Genetics Laboratory. A special equipment grant of Rs. 20,000 is recommended for this laboratory under the Department of Zoology.

MATHEMATICS.

The Department of Mathematics was established in 1962 and has one Professor, one Reader and three Lecturers. The Department conducts M.A. and M.Sc. courses in Mathematics and some research work is also conducted by the teachers of the Department. The Committee recommends an additional post of one Reader and a grant of Rs. 80,000 for books and journals. A grant of Rs. 1.00 lakh had been sanctioned during the Third Plan period for the construction of a building for the Department of Mathematics and Statistics. The building could not be constructed by the University during the Third Plan. The Committee recommends a grant of Rs. 1.50 lakhs during the Fourth Plan for the building for the Departments of Mathematics and Statistics.

STATISTICS

The Department of Statistics was established in 1953 and the annual intake to the M.Sc. course in Statistics is 32. There are at present only 3 Lecturers in the Department. The Committee recommends that a grant of Rs. 7,000 for equipment, Rs. 30,000 for books, one post of Reader and one post of Lecturer may be sanctioned during the Fourth Plan period. For its proper development, the Statistics Department might be placed under the administrative charge of the Professor of Mathematics.

COMMERCE

The Department of Commerce was established in 1954. There are at present one Professor and 4 Lecturers in the Department out of which 3 have research qualifications. The Committee recommends the posts of a Reader and a Lecturer and Rs. 10,000 for books and journals during the Fourth Plan period. The reader may be a specialist in the field of Business Management.

HINDI

The Department of Hindi was established in 1952. The number of students in the M.A. (Prev.) is 47, in the M.A. (Final) 61. Forty candidates were registered for Ph.D. degree during the Third Plan period. There are at present one Professor, two Readers and two Lecturers in the Department. The Committee recommends a grant of Rs. 10,000 for books Rs. 5,000 for equipment (linguistics) and a post of Lecturer during the Fourth Plan period.

RURAL ECONOMICS AND COOPERATION

This department was established in 1956. The number of students in M.A. (Prev.) class is 38 and in the M.A. (Final) class 46. There are at present one Reader and four Lecturers in the Department. Teachers of this department take some classes in the undergraduate classes and vice versa. The Committee recommends a book grant of Rs. 10,000 and a post of Reader during the Fourth Plan period.

SOCIOLOGY

This department was established in 1956. The number of students in the M.A. (Prev.) class is 41 and in the M.A. (Final) class 56. There are at present one Reader and four Lecturers in the Department. The Committee recommends a book grant of Rs. 10,000 and a post of Reader during the Fourth Plan period.

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LABOUR AND SOCIAL WELFARE

This Department was established in 1959. The number of students is 32 each in M.A. (Prev.) and M.A. (Final) classes. At present, there are one Reader and three Lecturers in the Department. The Committee recommends a book grant of Rs.10,000 and a post of Reader during the Fourth Plan period.

POLITICAL SCIENCE

This department was established in 1961. There are at present one Reader and three Lecturers in the Department out of whom two have research qualifications. Three persons have registered for Ph.D. in the Department during the Third Plan period. The Committee recommends one post each of Professor and Lecturer and Rs.10,000 for books during the Fourth Plan.

ENGLISH

This department was established in 1961. There are at present 56 students in the M.A. (Prev.) and 47 students in the M.A. (Final) classes. The number of teaching staff in the Department is one Professor and four Lecturers. The Committee recommends Rs.10,000 for books, Rs.5,000 for equipment (Linguistics) and one post of Reader for the Fourth Plan period.

PHILOSOPHY

This department was established in 1961. The annual intake to the M.A. class is 50. At present there are one Reader and three Lecturers in the Department. The Committee recommends a book grant of Rs.10,000 and a post of Professor for the Fourth Plan period.

ECONOMICS

This department was established in 1961. The number of students in the M.A. (Prev.) class is 67 and in the M.A. (Final) class 62. There are at present one Professor and three Lecturers in the Department. The Committee recommends Rs.10,000 for books and one post of Reader who should be a specialist in Econometrics and one Lecturer for the Fourth Plan period.

HISTORY

This department was established in 1963. The number of students in the M.A. (Prev.) class is 68 and in the M.A. (Final) class 60. There were 10 research students registered for Ph.D. degree during the Third Plan period. There are at present one Reader and three Lecturers in the Department. The Committee recommends a book grant of Rs.10,000, one post of Reader and one post of Lecturer for the Fourth Plan period. The Reader could preferably be a specialist in Ancient Indian History.

PSYCHOLOGY

This department was established in 1963. The number of students is 20 each in M.A. (Prev.) and M.A. (Final). Four research students were registered for Ph.D. degree in the Third Five Year Plan. At present there are one Reader and three Lecturers in the Department. The Committee recommends grants of Rs.15,000 for equipment, Rs.10,000 for books and one post of Reader for the Fourth Plan period.

CENTRAL LIBRARY

During the Third Plan, the Commission sanctioned grants for the construction of building for the Central Library. The civil works of the building are now complete. External and internal services,

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electrification, furniture are still to be provided. The charge on the Fourth Plan allocation on this account is Rs.5,44,466 plus Rs.1,30,604/- for furniture etc. The Committee recommends the post of a Deputy Librarian in the scale of Rs.700-1100. The Committee emphasises that the University library should start functioning as early as possible.

GENERAL SCHEMES

HOSTELS AND STAFF QUARTERS

The University proposes to have more hostels and staff quarters during the Fourth Plan. In view of the other commitments of the university and the need to consolidate the projects already undertaken, the proposals for additional hostels and staff quarters may have to be deferred for the time being.

PRINTING PRESS

The University Grants Commission approved an expenditure of Rs.1,81,000 for the establishment of a Printing Press during the Third Plan period. The building for the Printing Press is partly complete. The grant under the scheme has already been made available to the University by the UGC, Rs.91,000 being the first charge on the Fourth Plan allocations.

MEETING WITH STUDENT REPRESENTATIVES

The Committee met student representatives and discussed with them the problem relating to student welfare and teaching etc. in the Bhagalpur University. The students emphasised that better library and common room facilities should be provided. Additional hostel accommodation is also necessary.

MEETING WITH TEACHERS

The Committee also had discussions with the teachers of University departments. The teachers emphasised the need for building for the departments, hostels for the students and adoption of the Fourth Plan UGC pay scales in the University.

FINANCIAL IMPLICATIONS

The financial implications of the recommendations of the Visiting Committee are summarised in the following table. Since the University Departments are engaged only in postgraduate teaching and research, the grants recommended are on 100% basis:

S.No.	Department	Staff	Recurring	Non-Recurring	Total
1.	2.	3.	4.	5.	6.
(Figures in lakhs of rupees)					
<u>SCIENCE</u>					
1.	Physics	1R + 1L	0.55	Equipment 0.80 Books 0.30	1.65
2.	Chemistry	1L	0.40	Equipment 0.80 Books 0.30 Gas Plant 1.50	3.00
3.	Botany	1P + 1L	0.70	Equipment 0.50 Books 0.30 Museum etc. 0.25	1.75
4.	Zoology	1P + 1L	0.70	Equipment 0.70 Books 0.30 Museum etc. 0.25	1.95

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1.	2.	3.	4.	5.	6.
M 5.	Mathematics	1R	0.35	Books 0.30	0.65
6.	Statistics	1R + 1L	0.35	Equipment 0.07 Books 0.30	0.92
Building for Mathematics and Statistics				1.50	1.50
				Total	11.42
<u>HUMANITIES AND SOCIAL SCIENCES</u>					
1.	Commerce	1R + 1L	0.55	Books 0.10	0.65
2.	Hindi	1L	0.20	Books 0.10 Equip. 0.05 (Linguistics)	0.35
3.	Rural Economics & Cooperation	1R	0.35	Books 0.10	0.45
4.	Sociology	1R	0.35	Books 0.10	0.45
5.	Labour & Social Welfare	1R	0.35	Books 0.10	0.45
6.	Pol. Science	1R + 1L	0.70	Books 0.10	0.80
7.	English	1R	0.35	Books 0.10 Equipment 0.05 (Linguistics)	0.50
8.	Philosophy	1R	0.50	Books 0.10	0.60
9.	Economics	1R + 1L	0.55	Books 0.10	0.65
10.	History	1R + 1L	0.55	Books 0.10	0.65
11.	Psychology	1R	0.35	Books 0.10 Equipment 0.15	0.60
				Total	6.15

CENTRAL LIBRARY

Books and Journals	Rs. 2.00 lakhs
Deputy Librarian	Rs. 0.35 "
Total	Rs. 2.35 lakhs

The grants recommended and these already committed for development of the University during the Fourth Plan are summarised below:

Scheme	Grants Recommended	Grants already committed
(Figures in lakhs of Rupees)		
Science	11.42	21.75
Humanities & Social Sc.	6.15	6.58
Central Library	2.35	6.75
General Schemes	9.92	9.03
Total	19.92	44.11
		Grand Total = Rs. 64.03 lakhs say Rs. 64 "

The Committee puts on record its sincere thanks to the Vice-Chancellor, the staff and the students of Bhagalpur University for help and cooperation in its work.

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II - GENERAL SCHEMES

(Figures in thousand)

Continuing schemes	Schemes already approved		New Schemes		Total UCC Share	Remarks
	Cost	UCC Share	Cost	UCC Share		
2	3	4	5	6	7	8
-	-	-	600	100	-	-
-	-	-	34*	17	-	Pay Librarian
-	150	150	150	150	-	-
-	-	-	30	20	-	-
935	-	-	1000	500	-	-
152	-	-	-	-	-	-
23	136	68	40	20	-	-
-	-	-	100	70	-	-
-	-	-	150	100	-	-
0	266	218	2114	1277	2605	-

Summary of Allocation (UCC Share) to the University for the IV Plan.

Rupees in thousands

New Schemes										Total	Grand Total	
Library		Equipment		Deptt. Bldgs.		General				14	15	16
Sc.	H	Sc.	H	Sc.	H	Students Amenities	Staff Residences	Misc.				
6	7	8	9	10	11	12	13	14	15	16		
108	400	350	665	50	-	570	120	222	2892	5525		

UNIVERSITY GRANTS COMMISSION

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KALYANI UNIVERSITY

Statement showing the approved items and estimated expenditure of Fourth Plan Development Schemes of Kalyani University.

(Faculties and Departments)

(Figures in thousands)

Faculty/ Department	Staff Recommended					Departmental Books	Equipment		Teaching		Other items including		Remarks	
	Prof.	Reader	Lect.	Other	Cost		Cost	UGC share	Block/Labs. Cost	UGC share	scholarships, fellow- ships etc.	Cost		UGC Share
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Science														
1. Botany	-	1	1	-	54	27	50	225	150	-	-	*150	100	*Herbarium
2. Zoology	-	1	1	-	54	27	50	225	150	-	-	90	60	Botanic
3. Physics	-	1	2	-	74	37	50	225	150	-	-	-	-	Tempera
4. Chemistry	-	1	2	-	74	37	50	225	150	-	-	15+	10	Room &
5. Mathematics	-	1	2	-	74	37	75	-	-	-	-	-	-	Animal
6. Central Workshop	-	-	-	3	30	15	-	50	40	-	-	-	-	+ Furn
7. Biochemistry	-	1	1	-	54	27	19	37	25	-	-	-	-	
	-	6	9	3	414	207	285	997	665	-	-	255	170	
Humanities & Social Sciences														
1. Economics	-	1	-	-	34	17	35	-	-	-	-	-	-	
2. English	-	-	1	-	20	10	25	-	-	-	-	-	-	
3. Sociology	-	1	1	-	54	27	20	-	-	-	-	-	-	
4. Education	-	1	1	-	54	27	25	53	35	-	-	*22	15	*Furn
5. Phy.Edn.	-	1	1	-	54	27	10	20	15	-	-	-	-	
	-	4	4	-	216	106	115	75	50	-	-	22	15	
Total of Cols. 7, 8, 10, 12, 13, 14														
Total:	-	10	13	3	730	315	400	1072	715	-	-	277	185	

1. U.G. share for schemes continuing in Third Plan. 885

2. Schemes already approved during Fourth Plan

(a) Basic grant for equipment 420 Physics 120, Chemistry 120, Botany 80, Zoology Mathematics/Statistics 20.

(b) Staff (Departmentwise & categorywise) -

Total: 1305


CONFIDENTIAL

University Grants Commission

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Report of the Visiting Committee appointed to assess the Fourth Plan development schemes of the Kalyani University.

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The University Grants Commission appointed a Committee consisting of the following to examine the Fourth Plan development schemes of the departments in the Faculties of Science and Arts of the Kalyani University:

1. Shri B. Shiva Rao
Member, UGC.
2. Dr. D.S. Reddi
Vice-Chancellor
Osmania University.
3. Prof. P.N. Dhar
Director
Institute of Economic Growth.
4. Prof. C.V. Ramakrishnan
Head of the Department
of Biochemistry
M.S. University of Baroda.
5. Prof. S. Krishnaswami
Head of the Department
of Zoology
Madurai University.
6. Prof. F.C. Auluck
Head of the Department
of Physics
Delhi University.

Officers of the Commission

Shri R.K. Chhabra
Joint Secretary
University Grants Commission.

Dr. J.N. Kaul
Development Officer
University Grants Commission.

Dr. M.L. Mehta
Education Officer
University Grants Commission.

2. The Committee visited the University on 23rd & 24th October 1967 and discussed the development proposals of the University with the Vice-Chancellor and Heads of the Departments

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concerned. The Committee went round the campus and saw the buildings under construction and also met some representatives of teachers.

UNIVERSITY - SOME BASIC FACTS

ACT

3. The Kalyani University was established in pursuance of the Kalyani University Act of 1960 (Act No. XIII of 1960) for providing facilities for the study of Humanities and Sciences in general and Agricultural, Veterinary and allied Sciences in particular and for conducting research in these Sciences for the benefit of the rural and other areas in the State of West Bengal. The University started functioning in 1960 with the Birla College of Agriculture at Haringhata and the Teachers' Training College at Kalyani as its constituent colleges.

FACULTIES/
DEPARTMENTS

4. The University has at present three Faculties viz., Faculty of Science, Faculty of Arts and Faculty of Agriculture with the following departments:

- | | | |
|-------------------------------|---|---|
| <u>Faculty of Science</u> | : | Chemistry, Physics, Botany, Zoology, Mathematics. |
| <u>Faculty of Arts</u> | : | Economics, English, Education, Sociology & Physical Education. |
| <u>Faculty of Agriculture</u> | : | Agronomy, Agricultural Extension, Cytogenetics and Plant Breeding, Entomology, Horticulture, Plant Pathology, Soil Science, Agricultural Engineering, Agricultural Economics, Animal Husbandary, Agricultural Statistics and Mathematics. |

The Science Faculty was started in July 1961 at the Research Institute building at Haringhata and the Arts Faculty was started in the Teachers' Training College building. The Faculty of Science has since been shifted to Kalyani. Botany and Zoology departments are now temporarily located in the administrative building. The Chemistry, Physics and Mathematics departments of the Science Faculty and Economics, English and Sociology departments of Arts Faculty are

located either in their own unfinished buildings or in a building of the Veterinary department made available temporarily to the University by the State Government. The main campus of the University is located on 570 acres of land in the Kalyani township at a distance of about 40 miles from Calcutta in the district of Nadia.

COURSES

5. The University provides M.Sc. courses in Physics, Chemistry, Mathematics, Botany and Zoology as also honours courses in Physics, Chemistry, Botany and Zoology in the Faculty of Science and postgraduate courses in English, Economics and Sociology as well as honours course in Economics in the Faculty of Arts. Graduates of Kalyani University with first or high second class are given preference for admission to the postgraduate courses.

ENROLMENT

6. Student enrolment in the Faculty of Science & Arts increased from 114 in 1961-62 to 434 in 1965-66. The increase in the various stages was as follows:

	Arts			Science			Total
	U.G.	P.G.*	Total	U.G.	P.G.*	Total	
1961-62	-	79	79	3	32	35	114
1965-66	22	232	254	73	107	180	434

(*including research students)

The total number of students in the University during 1966-67 was 1351. The faculty-wise change in the student enrolment during the years 1961-67 is given in the following table:

	A. Faculty of Agriculture					
	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Undergraduate	221	264	339	458	600	728
Postgraduate	4	27	44	42	34	58
Res. Scholars	-	-	2	11	12	16

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**B. Faculty of Arts including B.T.
and Physical Education.**

	1961-62 I	1962-63 I	1963-64 I	1964-65 I	1965-66 I	1966-67
Undergraduate	-	5	7	14	22	29
Postgraduate	79	90	163	184	231	266
Res. Scholars	-	-	-	-	1	1

C. Faculty of Science

Undergraduate	3	19	33	53	73	107
Postgraduate	32	66	67	73	79	120
Res. Scholars	-	-	17	26	28	26

RESULTS

7. The final year results in terms of pass percentage in various courses (annual examination) for the years 1962-66 are given below:

Year	B.A. (Hons)	B.Sc. (Hons)	M.A.	M.Sc.	B.T.	Diploma in Phy. Education
1962-63	-	-	-	94%	100%	-
1963-64	-	100%	100%	100%	100%	100%
1964-65	100%	100%	100%	100%	100%	100%
1965-66	-	42%	100%	97%	99%	100%

The results compare favourably with all-India figures.

TEACHERS

8. The number of teachers in the University Departments increased from 39 to 143 during the period 1961-67. The faculty-wise increase in the strength of teachers was as under:

Faculty	1961-62	1965-66	1966-67
Agriculture	10	53	59
Arts*	14	29	32
Science	15	43	52

(*including B.T. & Physical Education)

The Third Plan pay scales suggested by the UGC for the University teachers have been implemented by the University. Appointments in the university departments are made on the recommendations of the selection committees appointed by the University

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for the purpose. Residential facilities are available for teachers.

STUDENTS
WELFARE &
RESIDENCE

9. The University has a health centre which started functioning from 1962 at Kalyani with one Assistant Medical Officer Incharge of it. In August 1964, another small unit was also started at Dharampur. A play-ground with an athletic track is available for all the students of university. Besides, each hall is provided with a playground with facilities for playing basket ball, volley ball, cricket and badminton. Indoor games facilities for table tennis etc. have also been provided in each hall.

THIRD PLAN GRANTS

10. During the Third Plan, the Commission approved grants amounting to Rs.35.743 lakhs as the UGC share for various development schemes of the university. The grants made were utilized for the appointment of staff, purchase of books, journals and laboratory equipment and for construction of buildings, both academic and non-academic. The University had to face various difficulties in the implementation of the Third Plan schemes. Some of the major difficulties reported by the University are summarised below:

i) While sanctioning the building schemes in July 1962, the Commission estimated cost of buildings at Rs.20 per sq.ft. on the basis of the recommendation of the Visiting Committee. Since then the prices of the building material and labour charges in West Bengal went on increasing abnormally almost every year with the result that the lowest tender cost was found to be higher than the cost originally estimated.

ii) During the Third Plan period adequate matching grants were not made available by the State Government against the building grants paid by the UGC as a result of which a large number of the contractor's bill remained unpaid and

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the contractors stopped their work. Many buildings could not therefore be completed. It has not been possible even now to resume construction work of these buildings on account of non-availability of State Govt.'s matching grants.

iii) Procurement of foreign equipment and books was difficult for want of import licences, specially from the sterling areas and because of foreign exchange difficulties.

11. During the Third Plan, the Commission sanctioned grants for buildings of the Departments of Chemistry, Physics, Botany, Zoology and Mathematics in the Faculty of Science and for the Departments of Economics, English and Sociology in the Faculty of Arts as well as for the construction of hostels and staff quarters. The University could not undertake the construction of a postgraduate hall for girls during the Third Plan owing to uncertainty about the availability of the State Govt. matching grants. Most of the other buildings have been completed except for certain essential internal and external services, the reason being the non-availability of adequate matching grants from the State Govt. The University should be in a position to complete all these buildings in a few months time if funds are made available for the purpose.

COMMITTED AND CONTINUING EXPENDITURE

12. The University was not able to utilize fully the provision agreed to by the Commission during the Third Plan for various projects. Details of the committed expenditure paid or payable during the Fourth Five Year Plan in respect of continuing projects from the Third Plan and the proposals already approved during the current Plan period are indicated in Appendix I and are summarised below:

<u>Scheme</u>	<u>Third Plan Continuing</u>	<u>Basic grants already approved for books & equipment</u>	<u>New projects already sanctioned during the IV Plan</u>	<u>Total</u>
Science	Rs. 7,33,800	Rs. 5,47,000	-	Rs. 12,80,800

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	1	2	3	4	5
Humanities	Rs. 1,51,203	Rs. 23,000	-	-	Rs. 1,74,203
General Schemes	Rs. 11,10,450	-	-	Rs. 68,599	Rs. 11,78,950
Total:	Rs. 19,95,453	Rs. 5,70,000	Rs. 68,500	-	Rs. 26,33,953

These figures do not include the unassigned grants made to the University for various projects such as exchange of teachers, extension work by the university teachers, travel grants for attending conferences, seminars etc. as they are allocated separately. Committed expenditure mentioned above, including the basic grants for books and equipment is to be treated according to the policy of the Commission as first charge on the Fourth Plan allocation to the University. It may be emphasized that continuing projects from the Third Plan have to be completed as soon as possible.

FOURTH PLAN PROPOSALS

13. The University earlier submitted proposals amounting to nearly Rs. 60 lakhs (first priority schemes Rs. 40,56,966; second priority schemes Rs. 20,03,000) to the UGC for the consideration of the Visiting Committee. The first priority proposals related to the pay of teachers (spill-over from Third Plan) building and furniture (spill-over from Third Plan) and new schemes and equipment for the existing science departments. In the second priority proposals, the University included the setting up of new departments of Geology, Physiology, Political Science and expansion of the College of Physical Education, Department of Education as well as reorganisation of the health centre. No provision was, however, made by the University for the strengthening of the existing departments in these proposals. The University placed before the

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Committee revised proposals on their arrival at Kalyani on 23rd October 1967. The revised proposals required an outlay of Rs.60 lakhs, including spill-over of the schemes sanctioned during the earlier Plans. The revised proposals related to the strengthening of the existing departments, opening of new departments, setting up of a central library and provision for hostels and staff quarters etc.

14. The Vice-Chancellor, Kalyani University, Heads and teachers of the Departments in the course of their discussion with the Visiting Committee, inter-alia emphasized the following points:

i) In the Kalyani University Act, the Department of Education, Govt. of West Bengal, was made the liaison department for the university. The Department of Agriculture, Govt. of West Bengal, does not therefore, make any provision for the University. For a variety of reasons, the Indian Council of Agricultural Research did not take up the question of agriculture education and research with the State Department of Education. The Education Department had neither made any provision in its budget for agriculture education in Kalyani University nor had any spare resources to provide adequate funds for the university. State outlay for the Third Plan period therefore did not provide funds for agriculture education either in education or agriculture budget. The result was that the University was left without budget provision for the Faculty of Agriculture. This acute financial condition has left its mark on all the facets of the University. The teachers are restive and discontentment is growing for lack of teaching, research and other facilities. There is a feeling that the policy pursued hitherto has been detrimental to agricultural wing of the University and the situation can be improved only by making the university wholly agricultural. Others, on the other hand, wish the present act to continue which envisages a multi-faculty

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University with a bias towards agriculture. The students of agriculture now demand that the department of agriculture must be made the liaison department for the university.

(ii) The University has been finding it extremely difficult to provide matching share for the UGC grants because of the inadequate assistance from the State Government. This has hampered the growth of the University in many ways.

(iii) The University attaches topmost priority to the strengthening of the existing departments and to the opening of a few new departments directly related to the teaching of agriculture.

(iv) Building programme of the university has to be strengthened. Facilities in terms of equipment, books and furniture etc. have to be improved. The central library building has to be built and has to be properly furnished and equipped.

(v) Adequate funds are not available for routine running expenditure of the departments. This has created a serious handicap in maintaining teaching and research standards. Many useful apparatus could not be used simply for want of repair or overhauling.

15. The Committee makes the following general observations:

i) The development of the University has been hampered because of uncertainty of funds from the State Govt. The Committee feels that proper growth and development of the University would be ensured if the State Govt. could work out an arrangement whereby the University is assured of adequate and steady supply of funds and whereby Indian Council of

In view of the fact that the Act provides that special emphasis be laid in the teaching of Agriculture in the University.

Agricultural Research is encouraged to help the Agricultural wing of the University in its development plans.

ii) Most of the departments in the Faculties of Science and Arts were set up during the Third Plan and as such they are still in their infancy. It would be desirable to

consolidate and strengthen these departments in the first instance rather than to open new departments.

iii) Most of the academic and residential buildings are complete but cannot be used for lack of certain essential services. This has resulted in locking up scarce capital and non-utilization of facilities needed by the university. Urgent steps are necessary to put these buildings to effective use.

iv) The Committee observed that against the posts of Professors sanctioned by the UGC during the Third Plan, the University had appointed either Readers or Lecturers. These posts of Professors are lying vacant and are to be maintained by the University from its own funds after 31.3.1967. The Committee suggests that the University may take urgent steps in filling up the posts of Professors early.

v) The ratio between the senior and junior teachers in the University is unsatisfactory and for effective postgraduate teaching and research this needs to be improved.

vi) Teaching load per week per teacher appears to be on the high side. The Committee feels that for proper and efficient teaching which is essential for the maintenance of standards, the University may like to review teaching load of teachers. This might also facilitate better attention to research.

vii) The campus of the University needs proper development and maintenance. The University may approach the State Government for assistance for this purpose.

viii) Student enrolment in various courses is low. The Committee was informed that this was due to a) residential character of the university, b) lack of proper facilities and c) lack of accommodation etc. It is, however, felt that increased intake would facilitate more effective utilization of existing resources.

ix) The Departments of Zoology and Botany are doing work in Genetics and Plant Physiology for developing agricultural sciences. The other science departments which are still in formative stages, could also be oriented to suit the needs of agricultural sciences. Such inter-departmental contacts and cooperation would give a distinctive character to the university.

x) The pace and development of research activities in the university needs to be accelerated particularly in the Arts Faculty. It is doubtful if the University can make its distinctive contribution without promoting research of a high order.

xi) As the University was closed at the time of the Committee's visit, it was not possible to assess the reaction of students and to have the benefit of their point of view. It was, however, felt that more attention needs to be given to students welfare and amenities.

16. Observations of the Committee on individual departments follow.

FACULTY OF SCIENCE

DEPARTMENT OF BOTANY

The Department of Botany offers postgraduate and undergraduate (pass and honours) courses in all branches of Botany. Special papers are offered in Plant Physiology and Biochemistry, Taxonomy of Angiosperms, Cytogenetics & Plant Breeding, Microbiology, Plant Pathology and Palaeobotany in the final year of M.Sc. Research work is being done in Physiology and Biochemistry, Microbiology, Taxonomy, Cytogenetics and Pteridology. Forty-one research papers were published by the staff members during the Third Plan. A number of research projects sponsored by the CSIR, ICAR, Department of Atomic Energy as well as the University itself have been undertaken by the staff members of the department.

Student enrolment is 25 in B.Sc. (Pass), 25 in B.Sc. (Hons.), 18 in M.Sc. (Previous), 12 in M.Sc. (Final) and 11 in Ph.D. and

Taxonomy of Angiosperms, Cytogenetics & Plant Breeding, P.t.o.

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the staff consists of one Reader and nine Lecturers. Posts of one Professor and one Reader are lying vacant. Teaching load is of the order of about 25 periods a week. A number of distinguished Professors from India and abroad visited the department in recent years.

The Department is at present housed in the Administrative building. The University may take immediate steps to shift the Department to its own building which is complete but not ready for use. It was reported that the department lacks essential equipment, books and journals and other important items like herbarium, museum, botanical garden etc.

The Committee recommends that assistance may be provided to the department for appointing one Reader and one Lecturer and provision may also be made for the purchase of equipment (Rs.1.50 lakh), books and Journals (Rs.0.50 lakh), herbarium (Rs.0.15 lakh), glass house (Rs.0.25 lakh), botanical garden (Rs.0.30 lakh), temperature controlled room (Rs.0.20 lakh) and furniture for the museum (Rs.0.10 lakh). The University has requested assistance for additional space in the new building for herbarium and museum. The Committee suggests that the proposal may be deferred to the next Plan in view of other essential needs of the University.

DEPARTMENT OF ZOOLOGY

The Department of Zoology provides teaching facilities for undergraduate (pass and honours) and M.Sc. courses as well as research facilities leading to the Ph.D. degree. Research work is being done in Cytogenetics, Entomology, Cell-Biology, Systematics and Fishery. Research programmes in these fields are oriented mainly to fundamental aspects and a few to applied topics. Two research degrees were awarded and 108 research papers were published by the staff members during the Third Plan. A number of research projects undertaken by the staff and financed by the CSIR, UGC and Kalyani University are at

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various stages of development. A few distinguished Indian and foreign Professors visited the department in recent years.

The existing staff is one Reader and eight Lecturers and student enrolment is 15 in B.Sc.(Pass), 15 in B.Sc.(Hons.), 26 in M.Sc. & 10 in Ph.D. Posts of one Professor and one Reader are lying vacant. The Department is presently housed in the Administrative block. It is of utmost importance to shift the department as early as possible to its own building which is almost complete but unfurnished. The departmental library is poor and needs to be improved. Many essential items of the equipment are also not available. The Committee recommends that assistance may be provided to the department for one Reader and one Lecturer and provision may also be made for equipment (Rs.1.50 lakhs), books and journals (Rs.0.50 lakh), furniture (Rs.0.10 lakh) and an animal house-cum-tissue culture room (Rs.0.50 lakh).

DEPARTMENT OF PHYSICS

The Department of Physics is at present temporarily housed in the building of the Veterinary College. It provides teaching facilities to both undergraduate and postgraduate classes. Postgraduate teaching was introduced in 1966-67. It was reported that for want of adequate research guidance, laboratory accommodation and equipment, the department could not initiate its research programmes during the Third Plan. The Department has now planned a phased programme of research in Nuclear Physics, Electronics and Solid State Physics. It is hoped that this department will soon implement this programme.

Student enrolment is 23 in undergraduate, 7 in M.Sc. (Previous) and nil in Ph.D. and the staff consists of one Professor and seven Lecturers. The Professor is due to retire soon. One Readership is also lying vacant.

The building of the Department for which assistance was provided by the UGC has been completed but has to be furnished.

This will have to be done immediately as the veterinary college building in which the department is located at present will have to be vacated.

The Committee recommends that assistance may be provided for appointing one Reader and two Lecturers and provision made for equipment (Rs.1.50 lakhs), books and journals (Rs.0.50 lakh).

DEPARTMENT OF
CHEMISTRY

The Department provides teaching facilities for B.Sc.(Pass and Honours), M.Sc. and Ph.D. degrees. In M.Sc. the students have to specialize in Inorganic, Organic or Physical Chemistry in the final year. Research programmes in progress include investigations in Plant Chemistry, Organic Reaction Mechanisms, Synthetic Organic Chemistry, Macromolecular Chemistry, Surface Chemistry, Liquid State and Solutions, Electro-Chemistry, Physico-Chemical Investigations of Complexes, Chemistry of Rare Metals, Fluoro-Complexes and Analytical Chemistry. Eighty research papers were published and one Ph.D. degree was awarded during the Third Plan.

Student enrolment is 24 in B.Sc.(Hons.), 53 in B.Sc.(Pass), 13 in M.Sc.(Part I), 11 in M.Sc.(Final) and 13 in research courses. The staff consists of three Readers and eleven Lecturers. One Professor's post is lying vacant. The teaching load is of the order of about 25 periods per teacher per week. The Department has been recently shifted to its own unfinished building but there is a general lack of even some of the basic amenities. For proper functioning of the Department it is essential to provide certain minimum basic facilities and therefore the Committee recommends that assistance may be provided for appointing one Reader and two Lecturers, purchase of equipment (Rs.1.50 lakhs), books and journals (Rs.0.50 lakh) and furniture (Rs.0.10 lakh). The University may take urgent steps in equipping the department properly in the new building.

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DEPARTMENT OF MATHEMATICS

The Department of Mathematics & Statistics was approved by the UGC during the Third Five Year Plan but neither honours classes nor postgraduate classes in Mathematics could be started till 1966-67. Only pass course was started for the Chemistry (Hons.) and the Physics (Hons.) students.

The staff strength is one Reader, three Lecturers and two part-time Lecturers. The Professor's post is lying vacant. Student enrolment is 43 in B.Sc. and 9 in M.Sc.(Previous). Twenty-nine research papers were published by the staff members during the Third Plan.

The Department is presently housed temporarily in the building of the veterinary college. The building for the Department which has been built with the UGC assistance is almost complete but is yet to be furnished and essential services are to be provided. The Department needs to be strengthened. The Committee recommends that assistance may be provided for appointing one Reader and two Lecturers and for the purchase of books and journals (Rs.0.75 lakh).

CENTRAL WORKSHOP

The building constructed for the central workshop with the UGC assistance is almost complete. It has yet to be equipped with necessary equipment. The Committee recommends that assistance may be provided for appointing technical staff (one Senior Technician, one Junior Technician and one Glass-Blower) as well as for the purchase of essential equipment (Rs.0.40 lakh).

FACULTY OF ARTS

DEPARTMENT OF ECONOMICS

The Department of Economics started functioning from 1961 - at first with provision for postgraduate teaching only. The undergraduate honours course was started a year later and doctoral research started in 1965 with one research scholar. The student enrolment is 22 in B.A., 17 in M.A.(Previous), 11 in M.A.(Final) and one Ph.D. and the staff strength is one

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Reader and five Lecturers. Teaching load is of the order of about 23 periods per week per teacher. Two research papers were published during the Third Plan. The building of the Department has been completed and has also been occupied. It has yet to be furnished completely. Consolidation, extension and utilization of the existing facilities should be the primary objectives of the Department in the Fourth Plan period.

For the strengthening of the Department in the Fourth Plan, the Committee recommends one Reader and provision for books and journals (Rs.0.35 lakh).

DEPARTMENT OF ENGLISH

The Department provides facilities for teaching upto B.A. and M.A. It is proposed to open honours course during the Fourth Plan. Student enrolment is 22 in B.A., 10 in M.A.(Previous) and 5 in M.A.(Final). The staff strength is one Reader and four Lecturers and the Professor's post is vacant. The building for which assistance was provided by the UGC has been completed but is yet to be furnished. The Committee suggests that assistance may be provided for appointing one Lecturer and for the purchase of books and journals (Rs.0.25 lakh).

DEPARTMENT OF EDUCATION

The Teachers' Training College, Kalyani offers at present the one-year B.T. course. During the year 1966-67, there were 10 teachers and 180 students. There is no provision for post-graduate or research work. Provision for experiments in practical training is also inadequate. The present staff strength is one Reader and nine Lecturers. The University proposes to enhance immediately the present enrolment in the B.T. course to 200 and to provide for (a) two-years M.Ed. course with an annual intake of 20 students, (b) a bureau of psychological and pedagogical research with a child guidance clinic, (c) a workshop for practical training and (d) development of an extension wing.

p.t.o.

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On the recommendation of the Academic Council, the University has decided to constitute as early as possible a Faculty of Education with the Teachers' Training College and the College of Physical Education. The Committee feels that the development programmes of the department need to be carefully phased.

Increasing of B.T. enrolment from 180 to 200 will not perhaps necessitate any great increase in facilities. It would, however, be an advantage if the University could concentrate for the present on upgrading the department by starting a two-year M.Ed. course rather than spread out its activities in too many directions. The Committee supports the institution of the M.Ed. course and suggests that assistance may be provided for appointing one Reader and one Lecturer and provision made for books (Rs.0.25 lakh), equipment (Rs.0.35 lakh) and furniture (Rs.0.15 lakh).

DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education has at present no building of its own and is functioning in some temporary accommodation. The Department offers at present a one-year diploma course. Annual enrolment is 25. The present staff of the Department consists of one Reader, five Lecturers and two part-time Instructors. The University proposes to change the diploma course into a degree course to be called as B.Ph.Ed. and to introduce a two years' Master's course leading to M.Ph.Ed. It was stated that no University in West Bengal has at present any provision for these courses.

The Committee suggests that one Readership and one Lectureship may be provided and provision be made for books (Rs.0.10 lakh), equipment (Rs.0.15 lakh). The proposal of the University for a separate building for the department could be deferred to the next Plan.

DEPARTMENT OF SOCIOLOGY

The University could not introduce teaching of B.A.(Hons.) and M.A. classes in Sociology during the Third Five Year Plan period for want of accommodation though the scheme was approved by the UGC during the Third Plan. Postgraduate classes have, however, been started recently. Sociology was taught only as an optional subject of the Economics(Hons.) group. The present staff consists of one Reader and two Lecturers and the Committee recommends one Readership and one Lectureship and a book grant (Rs.0.20 lakh) for strengthening of the department during the Fourth Plan. It is recommended that post of the Professor which is lying vacant at present may be filled in as early as possible.

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NEW DEPARTMENTS

DEPARTMENT OF
BIOCHEMISTRY

The University proposes to set up a department of Biochemistry during the Fourth Plan to develop such aspects of Biochemistry as may help fundamental studies in the Physiology and Genetics of various organisms as well as studies in plant diseases etc. It was stated that integration of studies in Biochemistry with other biological studies will be of great mutual benefit and the university, therefore, attaches high priority to this proposal. The Committee recognizes that it would be an advantage to introduce teaching of biochemistry. It may, however, not be advisable to set up a separate Department of Biochemistry in the Fourth Plan in view of the fact that most of the departments which were established during the Third Plan have yet to grow. In view of the importance of the subject in an agricultural university, the university could be assisted to institute studies in Biochemistry in the Department of Botany. It is recommended that assistance may be provided for appointing one Reader and one Lecturer in the Department of Botany for promoting studies in Biochemistry. Provision may also be made for books (Rs.0.10 lakh) and equipment (Rs.0.25 lakh). The facilities already available in the Department of Botany should be fully utilized for promoting studies and research in Biochemistry. The unit could in the later Plans be developed preferably in the College of Agriculture, into an independent department of Biochemistry/depending upon the availability of funds and the progress made by the University.

DEPARTMENTS OF
GEOLOGY, POL.
SC. & LINGUISTICS

The University proposes to institute studies in Geology, Political Science and Linguistics during the Fourth Plan. The Committee feels that since the existing departments have yet to grow and develop these proposals could be deferred with advantage.

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CENTRAL
LIBRARY

The Central Library of the University has no building of its own. At present, the nucleus of the library has been formed in a make-shift arrangement in the building of the Department of Sociology. The number of books and journals as on 31.3.1966 was 15,265 of which 14,000 books were added during the Third Five Year Plan period. In all, there are 40,000 volumes in the library of which 15,265 volumes are in the Kalyani campus for Arts and Science Faculties and the remaining books in the Haringhata campus of the agriculture faculty. The University attaches topmost priority to a separate building for the central library at Kalyani at an estimated cost of Rs. 6 lakhs (UGC share being Rs. 4 lakhs) inclusive of furniture, fittings, etc. The Committee recommends that assistance (Rs. 4.00 lakhs) may be provided for the same as also for equipment (Rs. 0.20 lakh), books and journals (Rs. 1.50 lakhs) (Rs. one lakh for science; Rs. 0.50 lakh for humanities and social sciences). Provision may also be made for the appointment of one Deputy Librarian.

GENERAL

HOSTELS

As the Kalyani University is a residential university, all the students are expected to live in the hostels. At present, the student enrolment is 434 in the Faculties of Science & Arts. With the assistance from the UGC, the University constructed one undergraduate hostel for 60 boys, one postgraduate hostel for 61 girls and one postgraduate hostel for 62 boys. These hostels have been completed and occupied. The second and third postgraduate hostels for 60 boys each (Banyan hall) are almost complete and are to be provided with internal and external services. The construction of another hostel for 120 boys is in its initial stages. All these hostels would accommodate 423 students. Faculty buildings under construction at present will provide teaching accommodation for

640 science students and 255 Arts students. Hostel accommodation would, therefore, be needed for 895 students of which 423 students will occupy the hostels mentioned above and 192 students will occupy the Lake Hall which has been built by the University from its own sources. Additional accommodation would therefore be needed for about 280 students. The University has requested assistance for construction of two more hostels for 120 boys each during the Fourth Plan period. The Committee suggests that assistance may be provided to the extent of Rs.5 lakhs as the UGC share for the construction of a hostel for 120 students. Assistance may also be provided for the construction of a Reader's type quarter for the provost to the girls hostel (UGC share upto Rs.0.20 lakh).

HEALTH CENTRE

The University has requested assistance of Rs. one lakh for a health centre. The total student population of the University during the year 1966-67 was of the order of about 1400. The Committee suggests that for the present assistance upto (Rs.0.70 lakh) as the UGC share may be provided for the establishment of a health centre, as the existing arrangement is far too inadequate.

GUEST HOUSE

The University has requested assistance for the construction of a Guest House. The Committee recommends that usual assistance amounting to Rs. one lakh as the UGC share may be provided to the University for a Guest-House-cum-Staff Club.

CAMPUS

The campus of the University needs proper development and maintenance. The roads are to be built and lawns are to be provided. There are no suitable lighting arrangements also. The Committee suggests that since assistance for the campus development is not provided by the UGC, the University may approach the State Govt. for funds for this purpose.

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MEETING WITH THE TEACHERS

The Committee met teachers representatives and discussed with them problems relating to their welfare and maintenance of standards of teaching and research in the university as also of the students unrest. The teachers were of the view that academic facilities such as staff, books, journals, equipment, building etc. were not sufficient for the proper running of the University departments. Buildings have been constructed but for want of funds from the State Govt. could not be completed and occupied. The main cause of the students' unrest was stated to be inadequacy of support from the State Govt. for Agriculture education and the present arrangement which makes the Education Department of the State Govt. responsible for the Kalyani University. The teachers felt that the ratio between the senior and junior teachers in the university in relation to the academic programmes was rather low and needs to be considerably improved. The campus of the university needs proper maintenance and development. Library facilities are meagre and need improvement.

FINANCIAL IMPLICATIONS

Since the university departments are engaged both in post-graduate and undergraduate work, grants for the non-recurring and recurring purposes are to be given on sharing basis. The financial implications of the recommendations (the UCC share)

are indicated in the following table:

Department	Recurring Staff	Recurring Amount	Non-Recurring Bldg.	Non-Recurring Equip.	Non-Recurring Books and Jour.	Miscellaneous	Total	Grand Total (R+NR)
1	2	3	4	5	6	7	8	9

(Figures in lakhs of rupees)

A. Science

Botany	IR, IL	0.27	-	1.50	0.50	Herbarium	0.15	
						Glass House	0.25	
						Bot. Gard.	0.30	
						Temp. Con. Room	0.20	
						Furniture	0.10	
							1.00	3.00 3.27

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1	2	3	4	5	6	7	8	9	
Zoology	1R, 1L	0.27	-	1.50	0.50	Furniture Animal House	0.10 <u>0.50</u> 0.60	2.60	2.87
Physics	1R, 2L	0.37	-	1.50	0.50	-	-	2.00	2.37
Chemistry	1R, 2L	0.37	-	1.50	0.50	Furniture	0.10	2.10	2.47
Mathematics	1R, 2L	0.37	-	-	0.75	-	-	0.75	1.12
Central Workshop	1 Sr.Tech. 1 Jr.Tech. 1 Glass Blower	0.15	-	0.40	-	-	-	0.40	0.55
Biochemistry	1R, 1L	0.27	-	0.25	0.10	-	-	0.35	0.62
Total UGC Share	6R, 9L, 3 Misc.	2.07	-	6.65	2.85	-	1.60	11.20	13.27

Total approved expenditure 4.14 - 9.97 2.85 2.55 15.37 19.41

B. Humanities & Social Sciences

Economics	1R	0.17	-	-	0.35	-	-	0.35	0.52
English	1L	0.10	-	-	0.25	-	-	0.25	0.35
Sociology	1R, 1L	0.27	-	-	0.20	-	-	0.20	0.47
Education	1R, 1L	0.27	-	0.35	0.25	Furniture	0.15	0.75	1.02
Physical Education	1R, 1L	0.27	-	0.15	0.10	-	-	0.25	0.52
Total UGC Share	4R, 4L	1.08	-	0.50	1.15	-	0.15	1.80	2.88

Total approved expenditure 2.16 - 0.75 1.15 0.225 2.12 4.28

C. Central Library

Staff	Recurring	Non-Recurring			Total
		Bldg.	Equip.	Books & Journals	
1 Deputy Librarian	0.17	4.00	0.20	1.50	5.87
Approved expenditure	0.34	6.00	0.30	1.50	8.14

P.t.o.

D. General Schemes

<u>Scheme</u>	<u>Approved Expenditure</u> (Figures in lakhs of rupees)	<u>UGC Share</u>
One hostel for 120 boys	10.00	5.00
Staff Quarters	0.40	0.20
Health Centre	1.00	0.70
Guest House-cum-Staff-Club	1.50	1.00
	----- 12.50 -----	----- 6.90 -----

SUMMARY

A summary of grants recommended and those already committed in the Fourth Plan (only UGC Share) is given below:

<u>Head</u>	<u>Grants Recommended</u>		<u>Grants already committed</u>
	R	I N.R.	
	(Figures in lakhs of rupees)		
Science	2.07	11.20	12.80
Humanities & Social Sciences	1.08	1.80	1.74
Central Library	0.17	5.70	-
General	-	6.90	11.79
Total:	----- 3.32 -----	----- 25.60 -----	----- 26.33 -----

The total allocation thus recommended amounts to Rs.55.25 lakhs (as UGC share) against the ceiling of Rs.40 lakhs in the first priority and Rs.20 lakhs in the second priority suggested by the Commission. It may be pointed out that out of this allocation an amount of Rs.26.33 lakhs is payable to the University in respect of schemes and projects which are continuing from the earlier Plans and those already approved during the present Plan period.

The Committee puts on record its thanks to the Vice-Chancellor, the University Authorities and staff for help and cooperation in their work.

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ANNEXURE I

KALYANI UNIVERSITY

First charge on Fourth Plan Allocations

Scheme	Grants for III Plan Continuing schemes	Basic grants	Grants for New Projects during IV Plan.	TOTAL
	Rs.	Rs.	Rs.	Rs.
Science	7,33,800	5,47,000	-	12,80,800
Humanities	1,51,203	23,000	-	1,74,203
General Scheme	11,10,450	-	68,500	11,78,950
	19,95,453	5,70,000	68,500	26,33,953

First charge on Fourth Plan allocations

Scheme	Grants for III Plan Continuing schemes	Basic grants	Grants for New Projects during IV Plan.	TOTAL
	Rs.	Rs.	Rs.	Rs.
Science	7,33,800	5,47,000	-	12,80,800
Humanities	1,51,203	23,000	-	1,74,203
General Scheme	11,10,450	-	68,500	11,78,950
	19,95,453	5,70,000	68,500	26,33,953

First charge on Fourth Plan allocations

Scheme	Grants for III Plan Continuing schemes	Basic grants	Grants for New Projects during IV Plan.	TOTAL
	Rs.	Rs.	Rs.	Rs.
Science	7,33,800	5,47,000	-	12,80,800
Humanities	1,51,203	23,000	-	1,74,203
General Scheme	11,10,450	-	68,500	11,78,950
	19,95,453	5,70,000	68,500	26,33,953

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KALYANI UNIVERSITY

First Charge on Fourth Plan Allocations

Scheme	Amount approved as UGC Share	Amount paid upto 31.3.1966	Amount to be as 1st Charge on IV Plan allocations (UGC Share)
1	2	3	4
A. CONTINUING SCHEMES			
N.R. Science (Buildings)			
Chemistry	4,00,000	2,00,000	2,00,000
Physics	2,62,500	1,00,000	1,62,500
Botany	1,86,650	1,00,000	86,650
Zoology	1,86,650	1,00,000	86,650
Mathematics & Statistics	1,33,000	60,000	73,000
Workshop	50,000	25,000	25,000
RECURRING			
Staff (All Science Departments)	5,50,000	2,10,000	1,00,000 (subject to actual expenditure)
	-----	-----	-----
	17,68,800	7,95,000	7,33,800
	-----	-----	-----
N.R. HUMANITIES			
Arts Faculty Bldg.	2,10,000	1,45,000	65,000
Sanitary and Plum- bing Works - Arts Faculty Building	10,500	-	10,500
Furniture - Arts Block Building	52,500	-	52,500
RECURRING			
Staff	1,83,000	1,00,000	23,203
	-----	-----	-----
	4,56,000	2,45,000	1,51,203
	-----	-----	-----
N.R. GENERAL SCHEMES			
Three Hostels for 183 students inclu- ding furniture	7,36,000	5,65,000	1,71,000
II Postgraduate Hos- tel for men students	1,81,000	1,65,000	16,000

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1	2	3	4
Construction of men's hostel for 60 students	1,81,000	-	1,81,000
Construction of hostel for 120 men students	3,64,700	62,000	3,02,700
Construction of Post-graduate Women Hostel for 60 students.	2,64,750	-	2,64,750
Construction of Teachers' Hostels	4,50,000	2,98,000	1,52,000
Construction of Staff Quarters	2,23,023	2,00,000	23,000
	24,00,473	12,90,000	11,10,450

B. BASIC GRANTS

SCIENCE

Physics			1,20,000
Chemistry			1,20,000
Botany			80,000
Zoology			80,000
Mathematics/Statistics			20,000
			4,20,000
Books and Journals for all Science Departments.			1,27,000

Humanities

Books and Journals			23,000
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C. NEW PROJECTS

Construction of Vice-Chancellor's House			*68,500
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* Plans to be received.

UNIVERSITY GRANTS COMMISSION

Statement showing the approval items and estimated expenditure of
Fourth Plan development schemes of North Bengal University.

Faculty/ Department	Staff				Cost		Department books.	Equipment furniture Cost	Teaching/Block/ Labs. UGC share.	Other items including scholar- ship/Fellowship.		Remarks		
	Prof.	Reader	Lect.	Other	Total	UGC share				13	14			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. SCIENCE DEPARTMENTS:														
1. Physics							10	250	250					
2. Chemistry	1				45	45	10	250	250	75	75			
3. Maths.							10	30	30					
4. Geography	1				45	45	10							
5. Workshop										100	100			
B. HUMANITIES DEPARTMENTS:														
1. English	1				45	45	10							
2. Economics	1				45	45	10							
3. Pol. Science	1				45	45	10							
4. Bangali	1				45	45	10							
5. Commerce	1				45	45	10							
6. History	1				45	45	10							
										Total UGC share (Col. 7,8,10,12,14) = 1165.				
Total	8				360	360	110	530	530	175	175			

1. U.G.C. share for staff continuing in Third Plan:

Rs. 275

Rs. 956 (Building)

2. Schemes already approved during Fourth Plan.

a) Basic grant for equipment (Department-wise) Physics 120, Chemistry 120; Geography 40; Mathematics 300.

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UNIVERSITY GRANTS COMMISSION

SECOND GENERAL SCHEMES

(Rupees in thousand)

Items.	Continuing schemes (U.G.C. Share)	Schemes already approved during IV Plan.		New Schemes		Total U.G.C. share 2&4+6	Remarks
1.	2.	3.	4.	5.	6.	7.	8.
		Cost	U.G.C. Share.	Cost	U.G.C. Share		
1. <u>Central Library</u>							
a) Building		5.33	5.33			5.33	
b) Books		1.50	1.50	5.00	5.00	6.50	
2. <u>Publication of Research work.</u>		10	10			10	
3. <u>Construction of two men's Hostels.</u>	9.00					9.00	
4. <u>Purchase of living room furniture-for men's hostel.</u>	22					22	
5. <u>Construction for Women's hostel.</u>	84					84	
6. <u>Construction for IIInd " "</u>	3.22					3.22	
7. <u>Purchase of living room furniture for Women's hostel.</u>	15					15	
8. <u>Constt. of 44 staff quarters.</u>	4.76					4.76	
9. <u>Teacher Hostel.</u>	3.00					3.00	
10. <u>Guest House.</u>	1.00					1.00	
11. <u>Student's Health Centre.</u>	50					50	
12. <u>Student's Amenities.</u>				1.00	1.00	1.00	
13. <u>Staff Qrts. for Class IV staff.</u>				1.25	1.25	1.25	
Total	22.69	6.93	6.93	7.25	7.25	36.87	

III-Summary of allocations (UGC Share) to the University for the IV Plan.

NEW SCHEMES

University/ Institution.	Committed expenditure on develop- ment.	Cost of Schemes already approved in IV Plan.	Post		Library		Equipment		Departmental		General			Total Grant 4 to 14 Total 2 & 3 & 15	
			Science	Humanities	Bldg.	Books	Science	Humani- ties	Science	Humani- ties.	Students ameniti- es.	Staff/ reside- nces.	Misc.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
North Bengal.	3.500	9.93	90	2.70	-	6.00	5.30	-	1.75	-	1.00	1.25	-	1,890	6,383

UNIVERSITY GRANTS COMMISSION

CONFIDENTIAL

REPORT OF THE VISITING COMMITTEE APPOINTED BY THE
U.G.C. TO ASSESS THE FOURTH PLAN REQUIREMENTS OF
THE NORTH BENGAL UNIVERSITY.

The following Visiting Committee was appointed by the
U.G.C. to assess the development needs of the North Bengal University
during the Fourth Plan Period:-

1. Prof. K.R.Srinivasa Iyengar,
Vice-Chancellor,
Andhra University,
Waltair.
2. Prof. A.K.Sen,
Department of Economics,
Delhi University,
Delhi.
3. Prof. P.C. Chakraborty,
Department of Political Science,
Jadavpur University,
Calcutta.
4. Prof. A.K.Datta,
Department of Physics,
Visva-Bharati, Santiniketan
5. Prof. B.B.Sen,
Department of Mathematics,
Calcutta University,
Calcutta.

Officers of the University Grants Commission.

6. Dr. J.N. Kaul,
Development Officer,
University Grants Commission,
New Delhi.
7. Shri M.P. Balakrishnan,
Education Officer,
University Grants Commission,
New Delhi.

The Committee visited the University on the 28th and 29th
September 1967 and held discussions on the Fourth Plan proposals of
the University with the Vice-Chancellor, Heads of Departments and
other members of teaching staff of the University. The Committee
visited the University's Library, various departments located in
the campus, hostels for teachers and students and the Health Centre.
Since the University was closed at the time of the Committee's visit
owing to student unrest, the Committee could not meet representatives
of students to ascertain their views on matters concerning the
academic and welfare programmes of student community and campus life.

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General Information about the University.

The University started functioning in November 1962. It has 10 Post-graduate teaching departments - six in Humanities, viz. English, Economics, Political Science, Bengali, History and Commerce with an intake capacity of 60 each and four in Science, namely Physics, Chemistry and Geography each with an intake capacity of 20 and Mathematics with 60. All Post-graduate teaching is concentrated at the University head quarters in Siliguri.

The University has 16 Arts and Science Colleges, 3 Teacher Training Colleges and One Engineering College affiliated to it.

Enrolment at the under-graduate stage during 1966-67 was 13,551 and at the Post-graduate stage 678 of whom 177 scholars were in Science courses. There were 12 Ph.D. Scholars in Science subjects and 17 in the Humanities. Of the 678 Post-graduate students, 407 (285 boys and 132 girls) were residents in the University hostels.

Teachers:

The University had 63 teachers in position at the time of the Committee's visit and only one of them had a Professor's rank and 8 held Readers Posts. Others were either Lecturers or Assistant Lecturers. Residential accommodation available for University teachers consists of 8 quarters for Professors, 18 for Readers and only 18 for Lecturers.

University Library.

The University Library has at present only an area of 741 sq.ft. for stack rooms and another 779 Sq.ft. for reading rooms. The number of books in the Library was only 16,091. A new building for the library is, however, under construction.

The University has three grounds covering an area of 7200 Sq.ft. for out-door activities, games, sports etc.

Continuing Third Five Year Plan programmes.

On the basis of the recommendations of the Third Plan Visiting Committee, (September 1964) the Commission allocated a sum of Rs. 53.47 lakhs as U.G.C.'s share for the plan period for the development of the University as given below:

Science Departments.	Rs. 14.145 lakhs.
Humanities Departments.	Rs. 17.320 lakhs.
General Schemes.	Rs. 22.00 lakhs.
	<u>Rs. 53.465 lakhs</u>
	<u>or 53.47 lakhs.</u>

As the Third Plan schemes were initiated only in 1965, most of the schemes taken up had necessarily to be continued to the Fourth Plan Period. The University, however, has been able to speed up construction work of the most of the buildings in 1966-67. In the case of construction of Science Blocks for Physics and Mathematics, and Chemistry as well as Library building, work is still in progress. A sum of Rs. 34,99,954 would be required to complete the Third Plan Schemes, during the Fourth Five Year Plan Period. (Annexure I)

Fourth Plan Schemes already approved.

A sum of Rs. 9,93,333 has already been sanctioned by the Commission in respect of new schemes taken up during the Fourth Plan Period. Of this a sum of Rs. 3,50,000/- has been approved for purchase of essential equipment and library books for the Science Departments and Rs. 5,33,333/- for the library building and books and journals for the humanities departments.

A sum of Rs. 44,93,287/- would, thus, be required for the schemes continued from the Third Plan Period and for new schemes already approved during the Fourth Plan.

Funds for the Fourth Five Year Plan.

The Commission has suggested to the University that, keeping in view the resources likely to be made available, a programme with an outlay of Rs. 60 lakhs - Rs. 40 lakhs for first priority schemes and Rs. 20 lakhs for second Priority schemes, be suggested for consideration by the Commission.

Important Recommendations of the Third Plan Visiting Committee.

The Committee took note of the following recommendations made by the Third Plan Visiting Committee which visited the University in 1964, before initiating discussions with the university authorities.

- (a) The University should concentrate for the present on consolidating facilities for post-graduate teaching and research.
- (b) The most urgent need for the University is to construct a Library building with a stacking capacity of 50,000 volumes. This new building should take note of the future needs of the University and should also ensure protection of books and other material against damages from fungus due to climatic conditions.
- (c) In all subjects in humanities and most of the subjects in Science, the University has so far not appointed Professors and in certain subjects there is not even a Reader. For efficient organization of the departments of teaching and research in all subjects the University should have men with sufficient experience of teaching and research publications to their credit so that they could inspire the younger members of the staff towards proper development of teaching and research in the University. The staff in

each Department should be strengthened by the appointment of a Professor in each subject.

- (d) In the case of Science Departments there should be a Central Workshop to meet the special or large scale demands of all departments.
- (e) Great stress should be laid on raising the quality of staff.
- (f) The University may also undertake Honours teaching in addition to the post-graduate courses by using the facilities to be developed with the proposed assistance.

These recommendations were discussed with the Vice-Chancellor and the teachers of the University and the Committee felt that these recommendations should be implemented by the University on a priority basis.

Fourth Plan Proposals of the University.

The total outlay of the development proposals placed for consideration before the Committee came to Rs.145.69 lakhs as indicated below:-

HUMANITIES.

1. Department of English.	17.58	lakhs.
2. Department of Political Science.	13.28	"
3. Department of Economics.	12.92	"
4. Department of Bengali.	nil	
5. Department of Commerce.	5.00	"
6. Department of History.	9.29	"
TOTAL:	58.07	"

SCIENCE DEPARTMENTS.

1. Department of Chemistry.	38.66	"
2. Department of Geography.	13.16	"
3. Department of Mathematics.	9.28	"
4. Department of Physics.	26.52	"
TOTAL	87.62	"

Total outlay proposed. 145.69 "

p.t.o.

Basic facts and figures.

While visiting the different departments, the following facts as on 28-9-1967 were taken note of by the Committee.

Departments.	Teachers			Post-graduate Enrolment.		Ph.D. Schol-ars.	Post-graduate Examination Results 1967. 1st class IInd.	Average periods of work per week.	
	P	R	L	Part I.	Part II.				
(1)	(2)			(3)		(4)	(5)	(6)	
1. English,	N	1	4	56	15	3	—	24	12
2. Economics.	N	1	5	60	43	7	2	19	13
3. Political Sc.	N	1	4	59	29	1	—	18	13
4. Bengali.	N	1	4	58	44	3	—	16	14
5. Commerce,	N	1	4	56	18	2	2	7	14
6. History.	N	1	5	45	18	1	—	8	14
7. Geography.	N	N	5	6	11	1	—	10	20
8. Mathematics	N	1	5	52	29	1	3	8	16
9. Physics,	1	1	7	20	20	4	8	4T + 12 P	
10. Chemistry.	N	3	6	20	20	7	3	10	28

It would be seen from the above table that:

- (1) None of the teaching Departments, except that of Physics, has teachers with Professor's rank.
- (2) The Department of Geography has only Lecturers on its staff.
- (3) Only few students are passing out with first classes in their post-graduate degree examinations.
- (4) In some of the Departments the number of students admitted is less than the teaching potential available.
- (5) There is a sharp dropout of students in Part II in all Arts subjects and in Mathematics.
- (6) The Departments of Physics and Chemistry have shown signs of steady growth.
- (7) There is growing interest among scholars to undertake research in the University.

Research activities of certain Departments.

During the visits to the Departments it was brought to the notice of the Committee that the Department of Economics has taken up a Research project entitled 'A study of Hill Economy. The Department of Commerce has taken up two Research Projects viz. (1) Indo-Nepal Economic Relations (2) Cooperative Marketing in West Bengal. All the teachers of the Department of Geography are engaged in at least one Research project concerning North Bengal Region.

The courses of the Departments of Physics and Chemistry are becoming more and more research oriented.

The branches of specialisation of the Physics Department are:-

- (a) Plasma Physics.
- (b) Nuclear Physics.
- (c) Ionospheric Investigation by Micro Waves.

The main projects under which research work is being conducted are the following:

- (a) Breakdown in Electrical discharge phenomena under radiofrequency and Microwave excitation.
- (b) Development of a new technique for Plasma diagnostics.
- (c) Study of the recombination process in active and decaying plasma by Microwave probe and optical method.
- (d) Scattering and dispersion of microwaves by high density plasmas.
- (e) Atmospheric Radioactivity.
- (f) Propagation of microwaves in polar organic substances and determination of high frequency conductivity of polar dielectrics.
- (g) Investigation of Ionosphere by Microwave propagation method.
- (h) Cosmic ray Induced Radio activity.
- (i) Study of the properties of Plastic scintillators, liquid scintillators and development work in scintillation counters.

Plasma Physics is a growing subject with wide applications of both theoretical and practical interest. This department will mainly concentrate its research activities in this line and as Plasma Physics and Nuclear Physics are interdependent and closely allied, each in its turn, will supplement the other.

Observations of the Committee.

In the discussions which the Committee had with the Heads of Departments and the Vice-Chancellor, the following points were highlighted.

(1) General:

This new University has to grow in a distinct and different way and for this there should be a carefully drawn up development programme. As a first step, the existing departments should be stabilised by providing a first class Library, by appointing at least one Professors, in each department by improving the staff strength and by properly equipping the laboratories.

(2) Library.

There are at present only about 16,000 books in the University library. As the teaching departments do not have departmental libraries, the need to build up the library on a priority basis is self evident. Necessary funds are urgently required to have at least 50,000 volumes in the library as suggested by the Third Plan Visiting Committee. Besides, each department should have some funds to purchase books needed for its teaching work.

(3) Professors in the University.

Except in the Department of Physics, there are no professors in the University. This has to be viewed with great concern as without the right type of academic leadership, the programmes at Post-graduate and doctorate levels cannot be developed. It is, therefore, necessary to take immediate steps to provide 8 posts of Professors, and to take urgent measures to fill up these posts and the vacant post of Professorship in the Department of Mathematics so that each department will have a professor from the academic year 1967-68.

(4) Central Workshop.

The University should set up a central workshop urgently as recommended by the Third Plan Visiting Committee to meet the varying needs of all the departments of the University. Student participation in the training-cum-production programmes of the workshop should also be ensured.

(5) Geography Teaching.

The arrangements which the University has made in respect of Geography teachers of the University who have to take classes in the college in Darjeeling on a part-time basis is neither convenient nor profitable to students of either the college or the University and as such may be discontinued with immediate effect.

(6) New Departments for Botany & Zoology.

Since the Post-graduate classes in Botany and Zoology can be better organised in the college at Darjeeling, there is no need for the University to duplicate these departments in the campus.

(7) Equipment for Science Departments.

The departments of Chemistry, Physics and Mathematics are in urgent need of certain items of equipment. The need of Chemistry Department for an infra-red spectro photometer (1-35) is most urgent. The needs of the Electronic and Nuclear Physics Laboratories for equipment has to be given priority for intensifying their activities. The department of Mathematics needs at least four electrically operated calculating machines.

Recommendations of the Committee.

The Committee, after taking note of the pressing needs put forward by the University authorities as also other relevant factors like spillover committed expenditure and the resources likely to become available, make the following recommendations for new schemes to be taken up during 1966-71 for the development of the North Bengal University.

Library.

- (1) A sum of Rs.5 lakhs needs to be allocated to the Library for books and journals for all the departments as a priority programme. In addition to this, a sum of Rs.10,000/- each may be allocated for each Department for buying books urgently needed for its individual teaching and research programmes.

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(2) Appointment of Professors:

A sum of Rs. 3.60 lakhs may be provided as U.G.C.'s share for the appointment of 8 Professors in the Departments which do not have Professors. The Committee very strongly recommends that the U.G.C. should use its good offices to see that this is given effect to from the academic year 1967-68.

(3) Equipment for Science Departments.

A sum of Rs. 5.3 lakhs may be provided for purchase of equipment needed urgently by the Departments of Physics (Rs. 2.5 Lakhs) Chemistry (Rs. 2.5 Lakhs) and Mathematics (Rs. 0.3 Lakhs).

(4) Central Workshop.

A sum of Re. 1 Lakh may be provided as U.G.C.'s share for establishing a Central Workshop.

(5) Oil Gas Plant for Chemistry Department.

A sum of Rs. 75,000/- may be provided for installation of an Oil Gas Plant for the Chemistry Department.

(6) Staff Quarters for Class IV Staff.

A sum of Rs. 1.25 lakhs be provided for construction of Class IV. staff quarters for the employees of the University.

(7) Student Amenities.

A sum of Re. 1 Lakh be provided for student's amenities.

(8) Printing Press.

The Vice Chancellor also suggested that a sum of Rs. 1.21 Lakhs be provided as U.G.C.'s share for establishing a printing press as he is finding it difficult to get the University's printing work done from Private presses. The Committee recommends that this programme may be considered during the next plan.

Some General Recommendations.

The Committee discussed with the Vice Chancellor and the teachers, certain matters of academic interest and makes the following recommendations for immediate attention of the authorities concerned.

(a) Development Programmes to be known to all Departments.

It is very necessary for the Heads of Departments to have full knowledge of the development programmes approved by the U.G.C. and the State Government. This will help to enlist their cooperation and full participation for better and quicker implementation of all schemes.

(b) Development Committee.

The University should have a development Committee consisting of all the Heads of Departments to advise on all aspects of development, including organisation of courses of studies in the respective departments.

(c) Board of studies of Experts.

In the existing situation when the University is conducting its business without Professors, it would be extremely useful for the university to have a Board of Studies of Experts.

(d) Study of decline of first classes.

A growing decline is discernible in the number of first classes among the students who are passing out of the University first and second degree examinations. This needs to be looked into.

(e) Instruction dominated by class room lectures.

The courses of instruction in the University are dominated by class-room lectures and they have to be reduced considerably to permit and encourage self-study among students, particularly at the Post-graduate level.

(f) Theories and Practicals to be coordinated.

It should be possible for a new University to discard old and disconnected experiments (these are far too many) to ensure that practical and theory work go side by side. Unless this is done, it would be difficult to upgrade courses. The Science Departments should have expert advice on such significant matters. The Committee noted that the Department of Physics has transferred some traditional experiments to the Honours classes to make the course more concise and in line with modern physics.

(g) Sharp decline of enrolment in Part II Arts subjects.

One of the reasons for sharp decline of enrolment in M.A. final class in various arts departments is probably that in the first year many students who do not secure admission elsewhere are admitted by the Departments and they subsequently fail in Part I or leave the University. This needs careful investigation and remedial action.

Conclusion:

In the allocation of funds the University deserves special consideration as considerable time of the Third Plan Period was lost to the University due to reasons beyond its control. Even though the University started functioning in 1962, the U.G.C. Committee could visit the University only in 1964. Even from the allocation of Rs.53.47 lakhs as U.G.C.'s share, only Rs.11.52 lakhs was paid to the University upto 31-3-1966. The ceiling of Rs.40 lakhs for first priority programme of University's development programmes for Fourth Plan has to be viewed in the light of the fact that schemes costing Rs.44,93,287/- already form part of the Fourth Plan by way of Third Plan spillover (Rs.34,99,954/-) and new schemes already approved) (Rs.9,93,333/-) annexure 1). The new proposals will cost Rs.18.90 lakhs (Annexure II).

The total outlay for 1966-71 as recommended by the Committee would thus amount to Rs.63,83,287/-.

NORTH BENGAL UNIVERSITY

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Statement indicating the financial implications (U.G.C.'s share) of the approved schemes continuing in the Fourth Plan.

<u>Name of the Scheme.</u>	<u>Non-Recurring</u>	<u>Recurring</u>	<u>Total</u>
A. Continuing Scheme.			
1. <u>Science Schemes.</u>			
a) <u>Buildings.</u>			
i) Chemistry.	3,49,370	---	3,49,370
ii) Physics & Mathematics.	4,07,145	---	4,07,145
B. <u>Recurring.</u>			
i) All Science Departments.	---	1,00,000	1,00,000
TOTAL:	<u>7,56,515</u>	<u>1,00,000</u>	<u>8,56,515</u>
II. <u>Humanities Schemes.</u>			
a) <u>Building.</u>			
Addition of III storey on existing Humanities Block.	2,00,000	---	2,00,000
b) <u>Recurring.</u>			
Arts Departments.	---	1,75,000	1,75,000
TOTAL:	<u>2,00,000</u>	<u>1,75,000</u>	<u>3,75,000</u>
III. <u>GENERAL SCHEMES.</u>			
i) Constt. of two men's hostels.	9,00,000	---	9,00,000
ii) Purchase of Living room furniture for men's hostel.	21,600	---	21,600
iii) Constt. of Women's hostel.	84,253	---	84,253
iv) Constt. of Ind. Women's hostel.	3,22,000	---	3,22,000
v) Purchase of Living room furniture for Women's hostel.	14,624	---	14,624
vi) Const. of 44 staff qrs.	4,75,962	---	4,75,962
vii) Teacher's hostels.	3,00,000	---	3,00,000
viii) Guest House.	1,00,000	---	1,00,000
ix) Students health centre.	50,000	---	50,000
TOTAL:	<u>22,68,439</u>	<u>---</u>	<u>22,68,439</u>
Total for continuing schemes.	<u>32,24,954</u>	<u>2,75,000</u>	<u>34,99,954</u>

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B. New schemes accepted during the Fourth Plan.

I. Science Schemes.

a) Equipment.

1) Physics Department.	1,20,000	--	1,20,000
2) Chemistry Department.	1,20,000	--	1,20,000
3) Geography Department.	40,000	--	40,000
4) Mathematics.	20,000	--	20,000

b) Lib. Books & Journals.

All Science Departments. 50,000 -- 50,000

TOTAL: 3,50,000 -- 3,50,000

HUMANITIES SCHEMES.

i) Library Books(H)	1,00,000	--	1,00,000
ii) Publication of Research work.	10,000	--	10,000
iii) Const. of Library Building including furniture.	5,33,333	--	5,33,333

TOTAL 6,43,333 -- 6,43,333

Total for new Schemes. 9,93,333 -- 9,93,333

Total for continuing schemes. 32,24,954 2,75,000 34,99,954

GRANT TOTAL 42,18,287 2,75,000 44,93,287

* University Grants Commission's assistance in respect of salary of additional staff will be available only upto 31-3-1969.

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ANNEXURE II

Financial implications of recommendations
of Fourth Plan Visiting Committee. (U.C.C. Share-
New Schemes.)

<u>Deptt./Item.</u>	<u>Recurring</u> Rs.	<u>Non-recurring</u> Rs.	<u>Remarks.</u>
<u>1. Science Departments</u>			
<u>PHYSICS</u>			
(i) Equipment.		2.5 lakhs	
(ii) Library Books.		10,000	
<u>2. Chemistry</u>			
(i) Equipment.		2.5 lakhs	
(ii) Oil Gas Plant.		75,000	
(iii) Library Books.		10,000	
(iv) Additional Staff. Professor - 1.	45,000		
<u>3. Mathematics.</u>			
(i) Equipment.		30,000	
(ii) Library Books.		10,000	
<u>4. Geography.</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		
<u>5. Workshop.</u>		1 lakh.	
<u>6. Humanities. -</u> <u>ENGLISH</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		
<u>7. Economics.</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		
<u>8. Political Science.</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		
<u>9. Bengali.</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		
<u>10. Commerce.</u>			
(i) Library Books.		10,000	
(ii) Additional Staff- Professor--1.	45,000		

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11. History.

(i) Library Books.		10 lakhs.
(ii) Additional Staff- Professor—1.	45,000	
12. Library.		5 lakhs.
13. General		
Student Amèntities.		1 lakh. (i)
14. Staff quarters for Class IV staff.		1.25 lakhs. (i)
)
TOTAL:	Rs. 3.6 lakhs.	15.30 lakhs. (i)
)

Rs. 18.9 lakhs.

GRAND TOTAL

a) Continuing Schemes.	Rs. 34,99,854/-
b) New Schemes already approved.	Rs. 9,93,333/-
c) New Schemes recommended.	Rs. 18,90,000/-
	Rs. 63,83,267/-
)

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ANNEXURE

Statement showing the approved items and estimated expenditure of

Fourth Plan Development Scheme of the Babindra Bharati

University of Patna
Patna - 800 001
Bihar

Faculty/ Department	Staff				Cost	Dept. Books	Equipment Cost	Teaching Lab.	Blocky UGC	Other items including scholarships Followships	Remarks
	Prof.	Reader	Leet.	Others							
151	118	-	3	113	575	-	100	-	325	105	
152	1	2	3	4	5	6	7	8	9	10	11
153	154	155	156	157	158	159	160	161	162	163	164
165	166	167	168	169	170	171	172	173	174	175	176

III - Summary of Allocations (in thousands) to the University for the Fourth Plan

(Amount in thousands)

105	106	107	108	109	110
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III GENERAL SCHEMES

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Year		New Schemes		Total UGC Share	Remarks
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
<u>1. Central Library</u>							
a. Building	-	-	-	-	-	-	
b. Staff	-	-	-	-	-	-	
c. Books	-	100	100*	-	-	100	* The Commission has already sanctioned Rs. 100 lakhs for purchase of books and journals and Rs. 5000 for publication.
d. Equipment	-	-	-	-	-	-	
2. Student Hostel	-	-	-	150	113	113	
3. Students Home N.R.S.C.	-	-	-	-	-	-	
4. Teachers Hostel	-	-	-	400	3.0	300	
5. Health Centre	-	-	-	-	-	-	
6. Staff quarters including Vice-Chancellors' Residence.	-	-	-	-	-	-	
7. Others	-	-	-	-	-	-	

Report of the Fourth Plan Visiting Committee
of the Rabindra Bharati University.

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The Committee appointed by the University Grants Commission to assess the Fourth Plan development schemes of the Rabindra Bharati University consisted of the following:

Prof. S. Vahjuddin,
Professor of Philosophy,
Delhi University.

Prof. S. Chaudhuri,
Dean,
Faculty of Fine Arts,
M. S. University of Baroda.

Prof. Satish Chandra,*
Professor of History,
Rajasthan University.

Officers of the Commission

Shri R. K. Chhabra,
Deputy Secretary,
University Grants Commission.

Dr. S. C. Goel,
Education Officer,
University Grants Commission.

2. We, the members of the Committee visited the Rabindra Bharati University on 23rd September, 1967, and discussed the development proposals of the university with the Vice-Chancellor and staff of the university departments. We went round the various departments of the university and the buildings viz., Sangeet Bhawan, Vichitra Bhawan, Maharishi Bhawan etc. We also met a representative group of students of the university. Later, we discussed the Fourth Plan proposals of the individual departments with the persons concerned.

3. Some basic facts and figures about the Rabindra Bharati University are given below:-

(i) The Rabindra Bharati University was established in May, 1962 in the ancestral home of Rabindra Nath Tagore at Jorasanko in Calcutta. The main objective of the University as stated in the preamble of the Act is to provide for the teaching of, and for training and instruction in all branches of Humanities and Sciences and, in particular, in Music, Fine Arts, Dance and Drama and to make provision for research and for the advancement and dissemination of knowledge. The University has taken up specifically the task of disseminating knowledge about Tagore and to undertake research on his works. The objectives of the university are in keeping with Tagore's concept of education as a method of developing the faculties of self-expression including not only the language of words but also the different fine arts as well i.e., the language of lines and colours, sounds and movements etc.

(ii) The University offers the following courses of studies:

1. M.A. (two year course) in (a) Music; (b) Bengali Literature and Culture; (c) English Literature; (d) Philosophy; (e) Sanskrit, and (f) History.
2. Postgraduate Diploma (one year's course) in (a) Drama, (b) Dance.

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3. B.A. (three-year degree course) Honours and Pass -
This course inter-relates Humanities with Fine Arts.
4. Senior Diploma (three-year course) for (a) Vocal Music;
(b) Instrumental Music; (c) Percussion; (d) Dance; and
(e) Drama.
5. Diploma in Tagore Literature (one-year course).
6. Doctor of Philosophy (Ph.D.)

(iii) The Three-Year Degree Course in Arts offered by the University attempts to inter-relate Humanities with subjects of the Fine Arts in conformity with Rabindra Nath's idea of preparing a student for life in all its aspects by enriching his faculties of self-expression. The course provides for the teaching of usual subjects of arts degree course in addition to a compulsory subject under the Fine Arts Group. In the B.A. (Pass) course a student has to offer English, Bengali or Alternative English, Sanskrit and Ancient Indian History in addition to any three subjects one of which shall be from among Dance, Drama, Vocal Music, Instrumental Music and Percussions. In the B.A. (Hons.) course the compulsory subjects are the same as in the Pass course and the student has to offer one subject consisting of 9 papers from either Group A (English, Bengali, Sanskrit, Philosophy and History), or Group B (Dance, Drama, Vocal Music and Instrumental Music) and an elective subject to be chosen from a group different from the honours group.

(iv) The University instituted the Master's degree courses in Music Bengali, English, Sanskrit and Philosophy during the academic session 1966-67 and the M.A. course in History during the current academic year. Though, by and large, the postgraduate courses of the university are patterned on similar courses in other universities, it was stated by the Vice-Chancellor that the syllabuses laid down by the Rabindra Bharati had different orientation and slant for example in the M.A. course in Bengali the emphasis was mainly on Tagore literature and similarly in the M.A. course in Philosophy particular attention was paid to Aesthetics.

(v) For admission to the B.A. Pass and Honours courses, the minimum admission qualifications laid down by the University is a Pass in the Higher Secondary Examination or in the three-year Senior Diploma Course of the university or an equivalent examination. To be eligible for admission to the M.A. course, the candidate must possess the B.A. (Hons.) degree or the B.A. Pass degree with good marks.

(vi) The University affiliates a number of institutions in (a) diploma and certificate courses in visual arts, (b) senior diploma course in Music and (c) junior diploma course in Music and Dance. There are in all 26 institutions affiliated to the university. Most of these institutions are in Calcutta city and its suburbs. Every institution applying for affiliation or recognition has to satisfy the Executive Council of the University -

- (a) that the institution is to be or is being managed by a Governing Body, which has been duly constituted in accordance with the Rules made in that behalf by the Executive Council;
- (b) that the qualifications of the teaching staff and the conditions of their service are such as to ensure the imparting of adequate instruction to the students in the courses of study to be undertaken by the institution;
- (c) that the building or buildings in which the institution is to be located are suitable;

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- (d) that the provision has been made for a properly equipped library and an adequate supply of equipment;
- (e) that the rules of the institution fixing the fees to be paid by the students have been so framed, as would not involve any competition with an existing institution in the neighbourhood, which would be injurious to the interest of teaching;
- (f) that it conforms to the Rules made by the Executive Council for such affiliation or recognition.

(vii) The University has also been functioning as the State Akademi in Drama and Music including Dance and Fine Arts. The West Bengal Akademi of Drama, Music and Fine Arts has accordingly been set up as a subordinate body of the university to promote the study of these subjects within the State.

(viii) The student enrolment and staff strength in the university during 1962-63 and 1965-66 are given in the following table:

	<u>Enrolment</u>							
	University Teaching Departments.				Affiliated Institutions			
	Arts		Fine Arts		Arts		Fine Arts	
UG	PG	UG	PG	UG	PG	UG	PG	
1962-63	20	-	113	-	-	-	-	-
1963-64	62	-	113	-	-	-	193	-
1964-65	89	-	89	28	-	-	124	-
1965-66	130	90	121	77	-	-	312	-

	<u>Teacher</u>								
	Prof. R	Lecturer			Teacher		Accompanist		
		T.T	P.T	Lec.	F.T.	P.T.	Full-Time	Part-Time	
1962-63	2	-	2	3	5	11	6	7	-
1963-64	2	1	8	4	9	14	6	8	-
1964-65	1	1	11	7	13	11	6	8	2
1965-66	1	1	16	15	14	12	7	8	4

(ix) The University has set up a museum in the ancestral house of Rabindra Nath Tagore for depicting the cultural history of Bengal in the nineteenth century including the part played by the Tagore family. During the Third Plan period, three different galleries were developed in the museum depicting (a) the important events in the life of Rabindra Nath Tagore, (b) Tagore family and (c) the impact of the renaissance movement on Bengal in the 19th Century.

(x) The University has been implementing a scheme for survey and research in folk culture. It sent out students and teachers to visit different centres of folk culture in the northern districts of the state for recording folk songs and taking film shots on different types of folk dances. The scheme is in progress.

(xi) The University has also introduced a course in General Education. Members of the public are also invited to attend lectures which are held every fortnight at the University auditorium by specialists on different aspects of culture.

(xii) The University has started a publications department to run a quarterly journal and publish books on various subjects. A sales counter has also been opened in the University campus.

(xiii) The examination results of the University in the various courses offered by it are given in the following Table:

Year	Senior Diploma in Dance, Drama & Music (pass p.c.)	Diploma in Tagore literature (pass p.c.)	B.A. (Pass) p.c.	Junior Diploma in Dance & Music (pass percentage)
1962-63	97.2	-	-	-
1963-64	95.6	91.6	-	-
1964-65	91.6	80	-	-
1965-66	95.6	57.1	100	100

PART - II

(MEETING WITH STUDENTS)

As stated earlier, we met a representative group of students. Their main anxiety was about lack of essential facilities in the university campus such as stadium for indoor games, play-grounds and water coolers. Another difficulty mentioned was the increase in the cost of imported books owing to devaluation. It was therefore urged that the Commission should make adequate provision for text-books and reference books in the university library. A genuine difficulty pointed out by students related to lack of residential accommodation for boys and girls in the university campus. In the absence of hostels, most of them have to reside in the city and face the difficult problem of transport and distance which is inevitable in a metropolitan city like Calcutta. The students also suggested that the Commission should provide 4 typewriters and 1 gestetner machine for the Union office. It was felt as a result of discussion that necessary typing and duplicating facilities could be provided to the Union Office in cooperation with the university office.

PART - III

(GENERAL OBSERVATIONS)

(i) When the Rabindra Bharati University was established in 1962, there was some controversy regarding its establishment in view of the fact that another university in the State viz., Visva-Bharati had been functioning for the promotion of more or less those objectives and ideals for which Rabindra Bharati was also set up. Fortunately, there is now a greater appreciation of the role which Rabindra Bharati plays in imparting education according to Tagore's concept emphasising the close inter-connections between Arts and Fine Arts. In this connection we would suggest that the two universities viz., Rabindra Bharati and Visva-Bharati should cooperate with each other in planning their courses of study, curriculum, research and investigations in various fields as also in developing facilities for specialized work. This would be necessary in order to avoid

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duplication of efforts and for maximum utilization of facilities in the two universities. We are happy to say that the Rabindra Bharati University has welcomed this suggestion which could be explored further by frequent consultations between the two universities.

(ii) Another point on which we would like to comment is regarding the affiliation and recognition of institutions by the university in Visual Arts, Dance and Music. The Act of the University lays down that on receipt of an application for affiliation or recognition the Executive Council of the university shall direct local inquiry to be made by the university Rector or any other competent authority. The university has also to satisfy itself regarding the availability of physical and academic facilities in the institutions concerned, qualifications of teachers, provision for library books and journals, equipment etc. We did not have an opportunity of visiting any of the institutions affiliated to the Rabindra Bharati University but we would suggest as a general principle that in granting affiliation or recognition, the university should give the utmost consideration to the maintenance and upgrading of standards for which it has a direct responsibility for the particular fields mentioned above.

(iii) We discussed with the university authorities the question of maintaining standards especially at the post-graduate and research level. The university has already started postgraduate courses in English, Bengali, Sanskrit, Philosophy and Music and is also offering courses leading to the Ph.D. We feel that the minimum admission qualifications laid down for admission to postgraduate courses as indicated earlier, may have to be sufficiently raised in the interest of maintenance of standards and for enabling the university to conduct the specialized courses at higher levels. At present the university does not have staff at the senior level for imparting instructions at the postgraduate level or for guiding research work. Provision of essential books and journals in the university library is meagre and the library building itself is far from being congenial for quiet study and work. Our recommendations for strengthening the basic physical and academic facilities are contained in the following section.

(iv) The present enrolment in B.A. (Hons.) classes in various subjects viz., Music, Dance, Drama, English, Bengali, Philosophy etc., is 75 only. In some of these subjects the total intake is very low e.g., Philosophy (1) English (2) Dance (2); and Drama (6) with the result that the academic and physical facilities in the university are not being utilised to the maximum advantage. In order to bring the size of the undergraduate classes to the optimum level, the university will have to make concerted efforts to raise the enrolment without sacrificing quality and standards. One of the steps that the university may consider in this regard is to offer a wider choice in the selection of subjects for the Honours course.

PART - IV

(Fourth Plan proposals of the University)

The University was requested to formulate its Fourth Plan proposals within an allocation of Rs.10 lakhs for I priority programmes and Rs.10 lakhs for 2nd Priority programmes. The proposals of the

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proposals of the university are outlined below:

A. Development of Postgraduate Studies & Research

Staff:

Professor	- 1	(Bengali)	Rs. 75,000	
Readers	- 4	(English, Sanskrit Philosophy, History - one each).	Rs. 2,16,000	
Lecturers	- 4	-do-	Rs. 1,44,000	Rs. 4,35,000
			<hr/>	

B. University Library:

Books	Rs. 60,000	
Furniture	Rs. 25,000	Rs. 85,000

C. Staff Quarters: NIL

D. Teachers' Hostels
No. 17 Capacity - 2 room quarters Rs. 4,11,000

E. Students' Hostels No.
Capacity - 50 seats. Rs. 2,00,000

F. Other Schemes:

Humanities Building	Rs. 8,00,000	
Development of Campus	Rs. 76,000	Rs. 8,76,000

Total

 Rs. 20,07,000

Our recommendations for the development of various departments are as under:

I. Staff:

The strength of the teaching staff as on 1st April, 1966 department wise is given in Annexure I. The statement also shows the staff appointed by the university after 1st April, 1966 in anticipation of the Commission's approval as also further requirements of the staff. Details regarding distribution of total teaching load in each department are given in Annexure II. In making our recommendations regarding additional teaching posts, we have taken into consideration the fact that at present the university provides for far too many lecture-periods, leaving little scope for individual studies on the part of students, especially at the postgraduate level.

Department of Bengali:

The staff in the Department of Bengali consists of 1 Reader, 4 Lecturers and 2 part-time lecturers. The University has already created two posts of lecturers in anticipation of the Commission's approval and has proposed the appointment of one more lecturer. Considering the present workload in the department viz., 124 periods per week, we recommend assistance towards the posts of two lecturers already created by the University.

Department of Sanskrit:

The staff in the Department of Sanskrit consists of 2 lecturers, and 1 assistant lecturer. This is evidently inadequate for a teaching load of 135 hours per week. The university has created additional posts of 1 reader, 2 visiting professors and 5 part-time lecturers in

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anticipation of the Commission's approval and proposes to appoint three more lecturers. It is suggested that the Commission may provide assistance towards the additional posts of 1 Reader (already appointed) and 2 lecturers (to be appointed).

Department of English:

The Department of English has a staff of 4 lecturers and 1 part-time lecturer. The teaching load consists of 126 hours per week. The university has created the posts of 1 Reader and 4 part-time lecturers in anticipation of the Commission's approval and proposes to appoint one more lecturer. It is recommended that assistance may be provided towards the additional posts of 1 Reader (already appointed) and 1 lecturer (to be appointed).

Department of Philosophy:

The Department of Philosophy has 2 lecturers, 1 assistant lecturer and 1 visiting professor. In order to cope with the teaching load of 125 hours per week, the university has created the additional posts of 1 reader, 1 lecturer and 5 part-time lecturers and proposes to appoint two more lecturers. Assistance may be provided towards the additional posts of 1 Reader and 1 lecturer (already appointed).

Department of History

The staff in the Department of History consists of 2 lecturers, 1 assistant lecturer and 1 part-time lecturer. The total teaching load consists of 110 periods per week. It is recommended that the Commission may assist the university towards the additional posts of 1 reader and 1 lecturer which have already been created by the university in anticipation of the Commission's approval.

II. Humanities Block :

The university needs further accommodation for its humanities departments as the main building of the university viz., the Sangeet Bhavan which houses the departments of Music and Dance and the administrative wings is hardly adequate for the postgraduate departments recently instituted by the university. As the final classes are added and enrolment increases, conditions in the building will become cramped. The University has accordingly undertaken the construction of a 5-storeyed building for these departments. The foundation for the proposed building has already been completed. We discussed with the university authorities the plans for the building and felt that if certain changes had been made at the planning stage, the functional efficiency of the building would have increased. This, however, is not possible at this stage as the building has already been completed up to the foundation stage and the columns have already come up on the ground floor. The total built up area of the building is 26,615 sq.ft. and the estimated cost including sanitary installations, water supply, electric fittings, internal wiring etc., is Rs.9 lakhs. We recommend that the Commission may provide assistance towards a built-up area of 15,000 sq.ft. @ 2,500 sq.ft. for each of the six postgraduate departments. The estimated cost and the UGC share would be Rs.5,25,000 for the building including services and Rs.50,000 for furniture.

III. Teachers Hostel:

The university proposes to construct a teachers' hostel with 17 flats consisting of two-room quarters at an estimated cost of Rs.4,11,000/-. This is an urgent necessity in view of the fact that at present the university does not have any staff quarters. The present staff in the university consists of 1 professor, 4 readers, 20 lecturers and 82 assistant lecturers, part-time lecturers, accompanists and others. Keeping in view the high cost of construction in Calcutta and the present staff strength in the university, it is recommended that the university may put up 12 units at an estimated cost of Rs.4 lakhs. The share of the U.G.C. would be limited to Rs.3.00 lakhs.

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IV. Students Hostel

The university has a hostel for women students which it proposes to rennovate at an estimated cost of Rs.2.00 lakhs .As the Commission does not normally provide assistance towards alterations in an existing building, the university may either consider the construction of a new hostel to provide for additional intake of women students or put up an additional block in the existing hostel or seek assistance towards kitchen,dining hall, common room etc., proposed to be put up by it as part of rennovation of the existing hostel. A provision of Rs.1.5 lakhs is recommended for the purpose.

V. Books and Journals:

During the Fourth Plan period, the Commission has allocated an amount of Rs.1.00 lakh for the purchase of books and journals. The university has distributed the amount as follows:

(a) Faculty of Arts	.....	Rs.55,000
(b) Faculty of Fine Arts	.....	Rs.45,000

As the present number of books in the university library viz., 28895 is inadequate to meet the requirements of six postgraduate departments, it is recommended that an additional provision of Rs.1 lakh may be made for books and journals during the Fourth Plan period to enable the university to meet its basic requirements in the faculties of Arts and Fine Arts. The university may also purchase text books out of the above provision to the extent of one-third of the total book grant.

The financial implications of the above recommendations are given in the following table:

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ANNEXURE I

STATEMENT REGARDING TEACHING STAFF

MUSIC DEPARTMENT

Post	As on 31st March, 1966	Posts created after March, 1966 in anti- cipation of UGC's approval.	Further require- ments
1.	2.	3.	4.
Professor	1	-	-
Lecturer	1	-	1
Assistant Lecturer	3	-	-
Part-time Lecturer	8	-	-
Teacher	5	-	-
Part-time Teacher	1	-	-
Total	19	-	1
Accompanists	4		
<u>Drama Department</u>			
Lecturer	-	-	1
Assistant Lecturer	3	-	-
Part-time Lectuer	6	-	-
Teacher	6	1	-
Part-time Teacher	3	One of the posts has been converted to whole-time Teacher.	
Total	18		1
<u>Dance Department</u>			
Lecturer	1	-	-
Assistant Lecturer	5	-	-
Part-time Lectuer	1	-	-
Part-time Teacher	3	One post has been converted to part-time Lecturer.	
Total	10		
Accompanists	8		
<u>Bengali Department</u>			
Reader	1	-	-
Lecturer	4	2	1
Part-time Lectuer	2	-	-
Total	7	2	1
<u>Sanskrit Department</u>			
Reader	-	1	-
Lecturer	2	-	3
Assistant Lectuer	1	-	-
Visiting Professor	-	-	-
Part-time Lecturer	-	5	-
Total	3	8	3
<u>English Department</u>			
Reader	-	1	-
Lecturer	4	-	1
Part-time Lecturer	1	4	-
Total	5	5	1

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Philosophy Department

Reader	-	1	-
Lecturer	2	1	2
Assistant Lecturer	1	-	-
Visiting Professor	1	-	-
Part-time Lecturer	-	5	-
	<hr/>	<hr/>	<hr/>
Total	4	7	2

History Department

Reader	-	1	-
Lecturer	2	1	2
Assistant Lecturer	1	-	-
Part-time Lecturer	1	1	-
	<hr/>	<hr/>	<hr/>
Total	4	3	2

(540)

Annexure II

Statement regarding class hours

Number of working hours:
General Class | Tutorial | & Group
| | | Classes

BENGALI:

1st Yr. (Comp)	2	3
1st Yr. (Hons)	8	
1st Yr. (Elect)	2	
2nd Yr. (Com)	2	3
2nd Yr. (Hons)	8	
2nd Yr. (Elect)	2	
3rd Yr. (Hons)	14	
3rd Yr. (Elect)	4	
M.A. (1st Yr.)	15	20
M.A. (2nd Yr.)	15	20
Tagore Literature	6	
	<u>78</u>	<u>46</u>

Distribution of work

Reader	(1)	10
Lecturer	(6) = 15 x 6	90
Part-time Lecturer	(2) = 5 x 2	10

Requirement - One whole-time lecturer for 14 hours.

SANSKRIT

1st Yr. (Comp)	3	3
1st Yr. (Hons)	12	
1st Yr. (Elect)	6	
2nd Yr. (Comp)	3	3
2nd Yr. (Hons)	12	
2nd Yr. (Elect)	6	
3rd Yr. (Hons)	18	
3rd Yr. (Elect)	6	
M.A. (1st Yr.)	25	10
M.A. (2nd Yr.)	25	3
	<u>116</u>	<u>19</u>

Distribution of work

Reader	(1)	12
Lecturer	(2) = 15 x 2	30
Asstt. Lecturer	(1)	16
Part-time Lecturers	(5) = 5 x 5	25
Visiting Profs.	(2) = 4 x 2	8

Requirement - Three whole-time lecturers for 44 hours.

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-: 2 :-

ENGLISH:

1st Yr. (Comp)	4	3
1st Yr. (Hons)	12	
1st Yr. (Alternative)	2	
2nd Yr. (Comp)	3	3
2nd Yr. (Hons)	19	
3rd Yr. (Comp)	2	3
3rd Yr. (Hons)	15	
M.A. (1st Yr.)	24	6
M.A. (2nd Yr.)	24	6
	105	21

Distribution of work

4 Whole-timers	4 x 14	56
Reader & Head of Deptt.		11
4 Part-timers (including Retd Teachers)	4 x 6	24
3 Part-timers	3 x 4	12
Dean		1
K. Mukherjee (Curator, Hony. Part-timer)		2
Registrar (Hony. Part-timer)		2
		108

Requirement - One whole-time Lecturer.

PHILOSOPHY:

1st Yr. (Hons)	12	1
1st Yr. (Elect)	4	
2nd Yr. (Hons.)	12	1
2nd Yr. (Elect)	4	
3rd Yr. (Hons.)	18	1
3rd Yr. (Elect)	4	
M.A. (1st Yr.)	20	18
M.A. (2nd Yr.)	20	10
	94	31

Distribution of work

Reader	(1)	12
Lecturer	(3) = 14 x 3	42
Asstt. Lecturer	(1)	14
Part-time Lecturer	(5) = 4 x 5	20
Visiting Prof.	(1)	4
		92

Requirement - Two whole-time Lecturers for 33 hours.

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HISTORY:

1st Yr. (Comp)	2	4
1st Yr. (Hons)	4	
1st Yr. (Elect)	3	
2nd Yr. (Comp)	2	4
2nd Yr. (Hons)	4	
2nd Yr. (Elect)	2	
3rd Yr. (Hons)	18	4
3rd Yr. (Elect)	3	
M.A. (1st Yr.)	22	8
M.A. (2nd Yr.)	22	8
	<hr/>	<hr/>
	82	18

Distribution of work

Reader	(1)	11
Lecturer	(3) = 14 x 3	42
Asstt. Lecturer	(1)	15
Part-time Lecturer	(2) = 6 x 2	12
		<hr/>
		80

Requirement - Two whole-time Lecturers for 30 hours.

DRAMA:

Senior Diploma:

1st Yr. (Comp)	24	24
2nd Yr. (Comp)	16	24
3rd Yr. (Comp)	16	

Degree

1st Yr. (Hons)	8	
1st Yr. (Elect)	6	
2nd Yr. (Hons)	8	
2nd Yr. (Elect)	6	
3rd Yr. (Hons)	14	
3rd Yr. (Elect)	6	
Postgraduate Diploma	14	20
	<hr/>	<hr/>
	118	68

Distribution of work

Assistant Lect.	(3) = 14 x 3	42
Teacher	(6) = 14 x 6	84
Part-time Lect.	(5) = 6 x 5	30
Part-time teacher	(3) = 5 x 3	15
		<hr/>
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Requirement - One whole-time Lecturer for 15 hours.

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Annexure III

Observations of Professor S. Chaudhuri, Dean, Faculty of Arts, M.S. University of Baroda on the report of the Visiting Committee.

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I have unfortunately not seen the rules of affiliation as mentioned by you. I had occasion to meet many people intimately connected with the teaching of Rabindra music, and Fine Arts, whereas in Drama the University no doubt has started a course all on its own, in music it has started by affiliating a series of institutions perhaps already affiliated by the Rabindra Bhavan Society and the West Bengal Akademy of Fine Arts. The more disappointing is the recognition of the National College of Arts & Draughtsmanship.

I may be wrong, but I could not help feeling that most well established Institution of Rabindra Sangeet i.e. Gitabitan is not an affiliated Institution and in affiliating these institutions before setting up a Board of Studies by the University, or fixing any standard, the impression one gets is that the University has accepted these standards and courses, as their own, a situation anything but desirable in maintaining a high academic level of teaching.

The U.G.C. before looking into these to give any grants would only mean a sanction, encouragements and perpetuation of such standards.

The University mentions of the Research project on Folk Music & Culture, but does not mention under which professor or department this has been done, nor any report of its progress has been brought out.

Regarding the establishment of the museum and the galleries by the University, it is not certain how much has been done by the University, or whether these have been started by the Rabindra Bharati, prior to its merger with the University.

Part III:

It will perhaps be an understatement to say that there is now a greater appreciation of the role which Rabindra plays in imparting education.

I would request that the U.G.C. may sanction the money as has been suggested, with the reservation that the building plan be reviewed: that the main Building be maintained as the office, but no hostels and teachers' quarters be built to cram the already congested area. The main grants should be allocated for Research projects, - preferably on the lines of Tagore's thought and culture, and appoint an independent committee of stalwarts not necessarily connected with the existing set up, and their opinion sought before any grant is announced.

I accept the report with these reservations.

III-- Summary of Allocations (UGE share) to the University for the Fourth Plan.

(Rupees in thousands)

University/ Institution	Committed expenditure on develop- ment.	Cost of schemes already approved in IV Plan	Recommended by Visiting Committees												Total 4 to 11	Grand Total 2 + 3 + 15
			Posts		Library		Equipment		Deptl Bldgs.		General		Misc.			
1.	2.	3.	Sc.	'H'	Bldg.	Books	Sc.	'H'	Sc.	'H'	Students amenities	Staff resi- dence		14.	15.	16.
Roorkee	1245	540	415	110		550	700	5	200	50	250	350	10	2640	4425	

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UNIVERSITY GRANTS COMMISSION

Statement showing the approved items and estimated expenditure of Fourth Plan development schemes of Roorkee University.

I - Faculties and Departments

Faculty/Department	Staff recommended				Cost Total	UGC Share	Departmental Books	Equipment		Teaching Block/Labs		Other items including scholarships fellowships	Remarks	
	Prof.	Reser.	Lect.	Other				Cost	UGC Share	Cost	UGC Share			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
<u>Humanities and Social Sciences</u>														
	1	-	3	-	110	110	25	5	5	50	50	-	-	-
<u>Science Departments</u>														
1. Physics	-	2	-	-	70	70	100	200	200	-	-	-	-	-
2. Chemistry	-	2	-	-	110	110	100	150	150	50	50	-	-	-
3. Mathematics	-	1	-	-	35	35	100	50	50	50	50	-	-	-
4. Geology & Geophysics	-	4	-	-	170	170	100	200	200	150	150	-	-	-
5. Workshop	-	-	-	3	30	30	-	100	100	-	-	-	-	-
Total UGC Share (Col.7,8,10,12,14) = 1015														
Total	1	9	6	4	525	525	425	705	705	250	250	10	10	10

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II - General Schemes

ROORKEE UNIVERSITY

(Rupees in thousands)

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan		New Schemes recommended by Visiting Committee		Total U.G.C. Share	Remarks
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
1. Central Library Furniture	17	-	-	125	125	142	-
2. Hostel	31	-	-	500	250	281	-
3. Women's Hostel	55	-	-	-	-	55	-
4. Teachers' Hostel	300	-	-	300	150	450	-
5. Staff Quarters	25	-	-	400	200	225	-
Total	428	-	-	1325	725	1153	

III - Summary of Allocations (UGC share) to the University for the Fourth Plan.

(Rupees in thousands)

University/Institution	Committed expenditure on development.	Cost of schemes already approved in IV Plan	Recommended by Visiting Committees											Total to 4	Grand Total 2 + 3 + 15
			Posts		Library		Equipment		Deptl Bldgs.		General				
1.	2.	3.	Sc.	'H'	Bldgs.	Books	Sc.	'H'	Sc.	'H'	Students amenities	Staff residence	Misc.	11	16
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Roorkee	1245	540	415	110	-	550	700	5	200	50	250	350	10	2640	4425

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

REPORT OF THE VISITING COMMITTEE TO ROORKEE UNIVERSITY

The University Grants Commission appointed a Committee consisting of the following to examine the Fourth Plan development schemes of the Departments of Science and Humanities in Roorkee University:

- (1) Prof. R.C. Mishra,
Head of the Department of Geology,
Lucknow University.
- (2) Prof. N.K. Saha,
Professor of Physics,
Delhi University.
- (3) Prof. R.C. Kapoor,
Head of the Department of Chemistry,
Jodhpur University.

Officers of the Commission

Shri S.P. Gupta,
Education Officer,
University Grants Commission.

Dr. M.L. Mehta,
Education Officer,
University Grants Commission.

2. The Committee visited the University on 17th and 18th October, 1967 and discussed the development proposals of the University with the Vice-Chancellors and Heads of the Departments. The Committee also met representatives of students and teachers. The Committee visited the Central Library and departments of the two faculties, besides going through the campus.

3. The Roorkee University incorporating the century old Thomasen College, was constituted by an Act of Legislature in 1947, to provide for the teaching of all branches of Engineering and was formally inaugurated on November 25, 1949. The Roorkee University is a residential university and its campus covers an area of 365 acres comprising university buildings, subsidiary buildings, residence for staff, Bhavans, Playgrounds, gardens and pasture lands.

3.1. Undergraduate courses of 3 to 5 years' duration are offered in Civil Engineering, Electrical Engineering, Mechanical Engineering, Architecture, Electronics and Communication Engineering, Chemical Engineering and Metallurgical Engineering, postgraduate courses and research facilities leading to Master of Engineering, M.Sc. (Tech.) and Master of Science in Sciences and Doctor of Philosophy in Engineering and Sciences are available in Structural Engineering, Hydraulics and Irrigation Engineering, Soil Mechanics and Foundation Engineering, Public Health Engineering, Highway Engineering, Advanced Survey and Photogrammetry, Earthquake Engineering, Advanced Electrical Machines, Power System Engineering, Applied ThermoSciences, Machine Design, Production Engineering, Advanced Electronics, Applied Electronics and Servomechanism, Applied Mathematics, Physics, Chemistry and Applied Geology.

3.2. In the faculty of Science, only postgraduate M.Sc. courses of a duration of 2 years in Physics, Chemistry, Mathematics, Geology and Geophysics were started from September 1960. These courses are of an applied nature. The Geology course now is of 3 years' duration. In the past, the teaching of science subjects was done under the over-all control of the Civil and Mechanical Engineering Departments. With the creation of the postgraduate departments of Physics, Chemistry, Mathematics and Geology in September 1960, these subjects were taken over from Engineering Departments.

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ADMISSIONS: 3.3 The number of admissions in the science courses during the current session is as under:

M.Sc. (Physics)	...	Upto 20
M.Sc. (Chemistry)	...	Upto 24
M.Sc. (Applied Maths.)	...	Upto 20
M.Sc. Tech. (App. Geology)	...	Upto 10

The minimum qualification for admission to these courses is B.Sc. degree in 1st class or High Second class.

TEACHERS. 3.4 Recruitment of teachers is made by the Syndicate on the recommendations of the Selection Committees in accordance with the procedure laid down in the Statutes. The Third Plan pay scales recommended by the University Grants Commission for the University teachers have been adopted by the University. The State Government has not agreed in principle for adopting the Fourth Plan pay scales recommended by the U.G.C. Rates of dearness allowance are the same as are admissible to the State Government employees. Being a residential university, all teachers are provided with university accommodation.

RESULTS 3.5 The results of the M.Sc. final and previous examinations for the years 1965-66 are summarised in the following table:

	No. of students appeared	No. of students passed			Pass percentage
		I Div. with Hons.	I Div.	II Div.	
<u>M.Sc. (Final)</u>					
M.Sc. Applied Mathematics	7	--	6	--	85.7%
M.Sc. Chemistry	12	--	3	9	100%
M.Sc. Physics	9	--	5	4	100%
M.Sc. Applied Geology (3 years)	8	--	6	2	100%
<u>M.Sc. (Previous)</u>					
M.Sc. Applied Maths.	18	--	--	17	94%
M.Sc. Physics	17	--	--	13	76%
M.Sc. Chemistry	21	--	--	18	86%
M.Sc. Applied Geology (Part II)	10	--	--	10	100%
M.Sc. Applied Geology (Part I)	10	--	--	10	100%

The percentage of the results are comparable with the All India results (78%).

STUDENTS' AMENITIES RESIDENCE

3.6. Bhavans form an integral part of the student life. Roorkee being a residential university, and all the alumni have to live in the campus. Each of the Bhavans has an admixture of students of all faculties and classes so that they can mix with one another and develop comradeship. The University also provides amenities to the students in the shape of Messes, Dairy, Cooperative Store, Book Depot, Bakery, Confectionary, Hair Dressing, Tailoring, Dry Cleaners and Shoe Makers shops. It also provides facilities for the welfare and social life of the students in the form of well-maintained clubs, sports and athletics facilities and hobby centre. There is a University Employment Bureau which is a unit of the Employment Service Organisation of the Government

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and has been functioning in the University since January 1962. It works under the over-all supervision of the Vice-Chancellor and an Advisory Committee appointed by him for the purpose. The University hospital has 32 beds. Shramdan is a special feature of the university. The students are permitted to work and handle equipment. With such voluntary labour, a swimming pool of olympic standards, an open-air theatre, sports pavillion and a large hall as well as a water-tower of 60,000 gallon capacity have been constructed.

THIRD PLAN GRANTS.

4. The Commission during the Third Five Year Plan period approved an expenditure of Rs.21.08 lakhs as the UGC share inclusive of a spill-over of Rs.7.16 lakhs from the schemes approved during the Second Five Year Plan period in respect of the faculty of science, humanities and related general projects. The grants paid by the U.G.C. have been well-utilized by the University for the strengthening of the existing departments, by appointing staff, purchase of books and journals, laboratory equipment and construction of academic and non-academic buildings. Promotion of research in different disciplines and raising of its quality received special attention from the University. Research activities have been encouraged through annual awards ranging from Rs.1000 to Rs.5000 and Gold Medals given by the University from the Khosla Research and Incentive Fund created by Dr.A.N.Khosla, the former Vice-Chancellor who donated the consultation fees received by him. Seminars are held on various subjects regularly in all the departments in which staff members, postgraduate students and teacher trainees participate. Several projects of research financed by the Council of Scientific and Industrial Research, the Atomic Energy Commission, Ministry of Defence, etc., have been undertaken by the different university departments. The staff and a large number of research workers are busy in pursuing their research problems in these departments. The shortage of high grade equipment and in some cases the inadequate strength of teaching staff were some of the factors which to some extent hampered the research work.

FOURTH PLAN PROPOSALS

5. The Fourth Plan proposals of the University (excluding those of Engineering and Technology) require an outlay of nearly Rs.79 lakhs - Rs.58.99 lakhs for first priority schemes and Rs.20.23 lakhs for second priority schemes. The University was requested to formulate its Fourth Plan development programmes within a ceiling of Rs.40 lakhs in the first priority and Rs.20 lakhs in the second priority. The proposals essentially relate to : (1) consolidation of existing facilities, (2) development of postgraduate and research activities, (3) teaching of foreign languages and (4) establishment of research centres.

6. The Vice-Chancellor, Roorkee University and the Heads of Departments in the course of their discussion with the Visiting Committee, inter-alia, emphasised the following points:

(1) The Third Five Year Plan was really the first development plan of the University and the tempo of development has to be accelerated. It is essential to strengthen and improve postgraduate teaching and research so as to improve the quality and standards. The University, therefore, attaches top-most priority to the strengthening of the existing departments during the Fourth Plan by providing senior teaching staff, library books and journals and laboratory facilities.

(2) The accommodation available at present in some of the departments is not adequate. Similarly, residential accommodation for the research students and teachers falls too short of the requirements of the University. More buildings for housing the departments and also staff quarters and hostels are to be provided during the Fourth Plan period.

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- (3) The State Government does not provide any assistance for Science departments. The University has, therefore, been finding it extremely difficult to provide recurring grants to these departments for their maintenance.
- (4) Foreign exchange problem has been the main handicap in the development of laboratories to the required standard.
- (5) Every department should have distinct research laboratories to improve the quality and enlarge the scope of research work. For seminars and general lectures which play a vital role in the advancement of knowledge in the field of sciences, no funds are placed at the disposal of the University. The need for a Computer Centre, Instrumentation Workshop and Auditorium to seat about 1000 persons is pressing.
- (6) The University library is inadequately equipped in back volumes of research journals.
- (7) The U.P. Government is reported to have agreed to the implementation of the Fourth Plan U.G.C. scales in all the universities of the State except in the Roorkee University, as a result of which there is great dissatisfaction on this, exceptional treatment of the State Government towards the science teachers of the Roorkee University. The Vice-Chancellor informed the Committee that he is approaching the U.P. Government in the matter.
- (8) The University had to meet certain expenditure out of the Fourth Plan Basic grants for the commitments made prior to 31.3.1966 towards equipment and books as a result of which science departments would not derive full benefit of these grants.

7.

The Committee makes the following general observations:

- (1) The Departments have formulated ambitious development programmes. In view of the fact that most of these departments have been recently established it would be desirable to strengthen and consolidate them in the first instance.
- (2) The departmental libraries are ill-equipped, and for an effective postgraduate teaching and research it is essential to improve the departmental libraries. The Central Library also needs improvement. It lacks in back issues of a large number of journals and other essential library equipment.
- (3) The Committee was given to understand that the U.P. State Government have agreed to the implementation of the Fourth Plan pay scales recommended by the UGC in all the Universities in the State, except in the Roorkee University. The Committee feels that this is not at all desirable and very strongly recommends that the UGC and the University may take up the matter with the State Government.
- (4) The Committee is of the view that it would be very difficult for the departments to maintain proper standards without a liberal continuing recurring assistance from the State Government for the maintenance of these departments. The Committee recommends that the University may take up the matter with the State Government and hopes that the State Government would consider the matter sympathetically, as it would go a long way towards the development of

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- (4) the University which has an established reputation as an engineering university. The standards of teaching of engineering subjects is directly based on the standards of facilities provided for teaching and research by its science departments.
- (5) The Committee thinks it desirable that the research programmes of the science departments be framed with technological orientation so that they can be executed in collaboration with the engineering talents available at the university to mutual benefit.

CONTINUING AND
COMMITTED EXPEN-
DITURE- 1ST CHARGE
ON IV PLAN
ALLOCATIONS.

8. Basic grants for books and scientific equipment have already been allocated to the University. The University was not able to utilise fully the provisions agreed to by the Commission for various projects during the Third Five Year Plan period. Details of the committed expenditure paid or payable, during the Fourth Five Year Plan in respect of continuing projects from the earlier plans and the other proposals already approved during the current plan period are given in Appendix 'A' and are summarised below:

Scheme	III Plan conti- nuing schemes (UGC Share)	Basic grants and New Projects.	Total
(Figures in lakhs of Rupees)			
Sciences	7.64	4.60	12.24
Humanities	0.70	0.80	1.50
General	4.11	-	4.11
Total	12.45	5.40	17.85

The figures given above do not include the unassigned grants for various projects, such as Exchange of Teachers, extension work by the university teachers, Travel Grants for attending conferences, seminars, etc. as they are allocated separately. Committed expenditure as stated above, including basic grants for books and equipment approved after 31.3.1966, according to the policy of the Commission, is to be treated as the first charge on the Fourth Plan allocation to the University. The continuing projects from the Third Plan need to be completed as early as possible.

FOURTH PLAN PROPOSALS

PHYSICS:

The Department provides teaching facilities for M.Sc. course with special papers on Solid State Physics and Nuclear Physics. Research work is being done in the field of Lattice Dynamics, Mossbauer Effect, Angular Co-relation Studies, Atmospheric Physics and Liquid State Physics. The Research groups are of recent origin. The Department also looks after the teaching of Physics to Engineering students of B.E. and M.E. classes. The student enrolment is 15 in M.Sc. (Prev.) 18 in M.Sc. (Final), 15 in Ph.D. and nearly 600 in B.E. The staff strength is one Professor, two Readers and four Lecturers. Two Readers and five Lecturers sanctioned by the U.P. Government for the teaching of B.E. classes also assist in the teaching work of the Department. Twenty six papers were published by the staff members during the Third Plan. A few research projects financed by the Department of Atomic Energy Commission, C.S.I.R. are in progress. For the strengthening of the department, the University proposes to appoint more senior staff and purchase necessary equipment as well as library books and journals. The department proposes to introduce

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special course on "Theory of Atomic and Molecular Collisions", but this may be of doubtful value at the present stage of the Department. The Committee observes that the library of the department is very poorly equipped with regard to its stock of research journals. It does not have back issues of a large number of journals and is not subscribing to some of the important journals in the areas in which active research groups exist in the Department. The Committee feels that this situation would hamper the research activities as well as postgraduate teaching.

The Committee recommends that for the strengthening of post-graduate teaching and research, assistance may be provided for appointing two Readers and for the purchase of equipment (Rs.2.00 lakhs) and Books and journals (Rs.1.00 lakh), the last one receiving high priority.

CHEMISTRY:

Postgraduate teaching in Chemistry was started in the University in 1961. It provides specialisation in Physical, Organic and Analytical Chemistry, and the University proposes to extend specialisation in other fields, viz., Inorganic Chemistry, Radio Chemistry, and Soil Biophysical Chemistry during the Fourth Five Year Plan. Research activities in the Department were organised in the year 1963. So far more than a dozen students have been awarded Ph.D. degree and 8 more are expected to get their Ph.D. degree soon. Research work is being done on various topics in the field of Physical Chemistry, Inorganic Chemistry, Analytical Chemistry, Radio Chemistry and Organic Chemistry. The staff strength is one Professor, two Readers and three Lecturers with a student enrolment of 21 in M.Sc. (Previ.), 17 in M.Sc. (Final) and 21 in Ph.D. The particular fields of interest in research are colloids, surface Chemistry, Electro-Chemistry, Polarography, Complex Compounds, Medicinal Chemistry, Chemical Kinetics, and Synthetic Organic Chemistry. 43 Research publications were brought out by the staff members during the Third Plan. A few research projects sponsored by the Council of Scientific and Industrial Research are in progress. The University has introduced the teaching of Inorganic Chemistry at the M.Sc. (Final) stage from this year and proposes to introduce the teaching of Radio-Chemistry from the next year. For the teaching of these two courses as well as for the strengthening of the teaching and research activities in the Department, the University proposes to have more staff, equipment, building and books and journals. The Committee feels that the present space available in the Department is rather inadequate in relation to its academic and teaching programmes. The library facilities are meagre and need considerable improvement.

The Committee, therefore, recommends that assistance may be provided for appointing two Readers (one in Radio Chemistry and the other in Inorganic Chemistry), two Lecturers and for the purchase of equipment (Rs.1.5 lakh), books and journals (Rs.1.00 lakh) and laboratory building (Rs.0.50 lakh).

MATHEMATICS:

The Department runs an M.Sc. course in Applied Mathematics and provides research facilities in elastic vibrations, Astrophysics, Elasticity, Numerical Analysis, Real Variables, Relativity, Geometry, Boundary Layer Theory and Hydrodynamics etc. The student enrolment is 20 in M.Sc. (Prev.), 20 in M.Sc. (Final), 25 in research and nearly 450 in B.E. and B.Arch. The staff strength is 1 Professor, 2 Readers and 2 Lecturers. Six Readers and 8 Lecturers from the Engineering side also participate in the teaching programmes. Eight research degrees were awarded and 67 research papers were published during the Third Plan by the staff members. The University proposes to strengthen the department particularly for the promotion of research during the Fourth Plan. Like the other science departments, here also the departmental library is ill-equipped and needs to be considerably strengthened.

The Committee recommends that one Readership may be provided and assistance may also be given for equipment (Rs.0.50 lakh), Books and journals (Rs.1.00 lakh).

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GEOLOGY AND
GEOPHYSICS:

The Department of Geology and Geophysics was started in 1960 for postgraduate studies in Geology. A three-year M.Sc.(Tech.) Course in Applied Geology including Geophysics was introduced with effect from 1964, in place of the earlier 2-year course. The Department besides providing teaching facilities for the M.Sc.(Tech.) course in Applied Geology, also collaborates in the B.E. and M.E. teaching courses. The field of research work in Structural and Engineering Geology, Geophysics, Economic Geology and Ground Water Geology. The student enrolment is 9 in M.Sc. Part I, 7 in Part II, 10 in Part III and 15 in Ph.D. work. The present staff consists of 2 Professors, 2 Readers and 5 Lecturers. Three research degrees were awarded and a large number of papers were published by staff members during the Third Plan period.

The Committee recommends that assistance may be provided for appointing 4 Readers, one Lecturer and one Technician (including 2 Readers and one Lecturer for Geophysics Department) and provision may also be made for equipment (Rs.2.0 lakhs), Books and Journals (Rs.1.00 lakh) and building (Rs.1.50 lakhs). The Committee is also of the view that a sum of Rs.3,000/- per annum may be provided for the field work by the students and teachers.

HUMANITIES

The University proposes to establish Humanities as a full-fledged department in charge of a Professor for proper development of the Department and effective and integrated teaching. The importance of the General Education for Engineers and Technologists has been fully recognised and to accomplish this, the University proposes to develop this department fully. The present staff strength is 1 Reader and 6 Lecturers. The University proposes to appoint a Professor and the Committee recommends that assistance may be provided for the same. It is also proposed to appoint one Lecturer each in French, Russian and German with a view to provide facilities for the learning of these languages which are essential for the development of research in the University. The Committee feels that as most of the university departments are doing active research work, assistance may also be provided for this purpose. There is also a proposal for having a separate block for the Humanities Department. The Committee feels that the present space available is inadequate and disintegrated and recommends that assistance may be provided for this purpose (Rs.0.50 lakh). Provision may be made for the purchase of equipment (Rs.0.05 lakh), books and journals (Rs.0.25 lakh).

WORKSHOP

The University proposes to have a full-fledged modern workshop with (a) machine section, (b) electronics section and (c) glass blowing section for the science departments. Workshop training is proposed to be made compulsory for the postgraduate student in Physics specially in Solid State Physics and Nuclear Physics.

The Committee feels that it should be desirable for the University to take the full benefit of workshop facilities available in the Faculty of Engineering. However, the Committee recommends for the strengthening of the existing workshop facilities in the Department of Physics, a provision for equipment (Rs.1.00 lakh) and technical staff (one Senior & two Junior Technicians).

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CENTRAL LIBRARY:

The Committee feels that on the whole the University lacks in sufficient number of books and journals relating to Science subjects. The Committee, therefore, recommends a grant of Rs.1.00 lakh for the improvement of the Central Library in relation to the needs of the Departments of Science and Humanities. The Committee observed that many essential equipment needed for the effective functioning of a Library, such as Photo Stat Machines, Micro-film Reader etc., were not available and hence recommends that assistance (Rs.0.25 lakh) may be provided for this purpose.

GENERAL SCHEMES:

The University has requested assistance for the construction of staff quarters and students' hostel. This was particularly stressed by the Vice-Chancellor that Roorkee University being a residential university, it is essential to provide accommodation to all the students and staff in the campus. The Committee recommends that assistance may be provided for staff quarters (4 Readers and 10 Lecturers) and one Teachers' hostel on usual sharing basis. To cope with the problem of accommodation for the postgraduate and research students in the science departments, the University may be assisted to an extent of Rs.2.50 lakhs as the UGC's share for the construction of a hostel.

OTHER SCHEMES:

1. The University proposes to have an Instrumentation Centre, a Computer Centre as well as an Auditorium for all the departments of the University. The Committee feels that since the Engineering Departments of the University are not within the purview of the Committee, proposals relating to the setting up of Instrumentation and Computer Centre may be examined by an other Committee consisting of the representatives of the U.G.C. and A.I.C.T.E. For the Auditorium, the University may approach either the State Government or the Ministry of Education to provide the necessary funds.

2. The University has requested for assistance for organising seminars, inviting visiting fellows and for more research scholarships for the promotion of research activities in the Departments. The Committee suggests that the proposal of the University for organising seminars may be considered favourably by the Commission. The funds to be provided for this purpose would be in addition to the recommendations made by the Visiting Committee. The University has been provided with an unassigned grant of Rs.18,000 per annum. To promote the scheme of exchange of teachers in the University, the Committee suggests that, if possible, the Commission may consider increasing the ceiling of assistance of the unassigned grants to the University.

FINANCIAL IMPLICATIONS

The financial implications of the recommendations of the visiting committee are summarised in the following table. Since the University Departments are engaged only in postgraduate teaching and research, grants recommended are on 100% basis:

(Figures in lakhs of Rupees)

Department	Recurring		Non-Recurring				G.Total 'R' & 'NR'
	Staff	Total 'R'	Bldg.	Equip- ment.	Books & journals	Total 'NR'	
Physics	2 R	0.70	--	2.00	1.00	3.00	3.70
Chemistry	2R + 2L	1.10	0.50	1.50	1.00	3.00	4.10
Mathematics	1R	0.35	--	0.50	1.00	1.50	1.85
Geology & Geophysics.	4R + 1L + 1T + Field work @ Rs.3000 p.a.	1.80	1.50	2.00	1.00	4.50	6.30
Humanities	1P + 3 L	1.10	0.50	0.05	0.25	0.80	1.90
Central Workshop	3T	0.30	--	1.00	--	1.00	1.30
Central Library	--	--	--	0.25	1.00	1.25	1.25
Total	1P + 9 R + 6L + 4T	5.35	2.50	7.30	5.25	15.05	20.40

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GENERAL SCHEMES

	<u>Approved Cost</u> Rs.	<u>UGC's Share</u> Rs.
Staff Quarters (4R +10L)	4.00 lakhs	2.00 lakhs
Teachers' Hostel	3.00 "	1.50 "
Students' Hostel	5.00 "	2.50 "
Total	12.00 lakhs	6.00 lakhs

The grants recommended and those already committed for the Fourth Plan (only UGC's share) are summarised below:

Scheme	Grants Recommended	Grants already Committed.
(Figures in lakhs of Rupees)		
Science	17.25	12.24
Humanities	1.90	1.50 (including Central Library)
General Schemes	6.00	4.11
Central Library	1.25	---
Total	26.40	17.85

Grand Total: Grants recommended + Grants Committed. Rs. 44.25 lakhs

The total allocation thus recommended amounts to Rs. 44.25 lakhs as the UGC's share. It may be mentioned that out of this allocation, an amount of Rs. 17.85 is payable to the University in respect of schemes and projects which have been continued from the Third to the Fourth Plan and those approved during the present Plan period.

MEETING WITH THE STUDENTS

The Committee discussed problems relating to student discipline and welfare with student representatives. The students were of the view that facilities for reading rooms, common rooms, hostels, etc., were not sufficient. Some necessary equipment or the components for fabrication of some essential equipment are not available either due to foreign exchange difficulties or lack of funds. This has handicapped the progress of research work. The students have to incur heavy expenditure to pursue studies at this University. A separate common room for the girl students of the science departments is desirable.

The students from the Department of Applied Geology and Geo-Physics stressed that the UGC Scholarships now granted for 10 months in a year should be made available for 12 months. They should also be given contingency for dissertation work and daily allowance when on field work. Survey of India maps are not easily available due to certain rules of the Government. It is essential to simplify the procedure for getting the maps in order to do field work.

MEETING WITH THE TEACHERS.

The Committee also had discussions with the teachers of the University departments. The discussions mainly related to the improvement of standards of education as well as the student unrest. The teachers were of the view that they should be given (1) more facilities for improving their subject competence (2) more accommodation and (3) should be provided D.A. on the same basis as that to the Central Universities. The Physical facilities at present available for teaching and research are not sufficient. They submitted the



following Memorandum:

"We should like to draw your attention to the discrepancy existing in the grades of Science teachers in this University vis-a-vis Engineering teachers of this very university and also as compared to Science teachers of other Uttar Pradesh Universities.

The U.P. Government is reported to have instituted the U.G.C. scales in all universities of the State except the Roorkee University as a result of which only twenty-three science teachers of this University now remain in a grade which is neither the accepted U.G.C. grade nor that of the I.I.T. Kanpur or of the Regional Engineering College of U.P.

Further, we should like you to note that this University gives postgraduate or Ph.D. allowances to teachers qualified in Engineering subjects, whereas no such allowance is allowed to Science teachers, holding equivalent qualifications. This has created a discrepancy amongst equally qualified teachers, in the same University on the basis of Engineering or Science subjects which is both unfair and unhealthy.

The Science teachers are under yet another disadvantage which is crippling their research potentialities. In the Engineering Departments teachers are appointed in specialized subjects. Thus their teaching load is reasonable and they are able to devote themselves to research. In the Science Departments, a teacher is called upon to lecture on diverse topics with consequent heavy teaching loads. This leaves them with little time to pursue vigorously their subjects of specialisation and research. The cumulative effect of this state of affairs over a long period of time is too obvious to need any emphasis.

Finally, we suffer needlessly from the non-availability of some paltry sums which may be used for obtaining reprints of papers published in foreign journals. No such grants are available at present which tend to nip any initiative in the bud. In the case of field sciences such as Geology and Geophysics even grants for field work of teachers is not available.

We, therefore, urge you to examine these situations which cannot but seriously impair the standards of teaching and research in the Science Departments of this University."

The Committee would like to say finally that Roorkee University has emerged out of a century old Thomas Engineering College- an Institute of recognised reputation. The present unhealthy situation in relation to the availability of maintenance grants for the Science Departments of the Roorkee University is very depressing which, the Committee is afraid, may adversely affect the standards of teaching and research in the Roorkee University.

The Committee puts on records its sincere thanks to the Vice-Chancellor, the University authorities, the staff and students for help and cooperation in its work.

Sd/-
(R.C.Misra)
(N.K.Saha)
(R.C.Kapoor)
(S.P.Gupta)
(M.L.Mehta)

FIRST CHARGE ON FOURTH PLAN ALLOCATIONS

Scheme	Amount approved as UGC Share	Amount paid upto 31.3.1966	Amount to be treated as 1st charge on IV Plan allocation (UGC Share)
1.	2.	3.	4.
	Rs.	Rs.	Rs.
SCIENCE (Buildings):			
Non-recurring:			
Physics, Chemistry & Mathematics	5,30,700	5,20,000	10,700
Geology and Geophysics	1,95,473	1,80,000	15,473
Gas Plant (Chemistry) Water Tank and storage room,	70,000	-	50,000
Purchase of Van (Geology Department)	47,500	-	47,500
Applied Geophysics	1,70,000	-	1,70,600
Total	10,54,273	7,00,000	2,94,273
Recurring			
Staff (II Plan)	1,56,000	1,66,596*	97,286.66
		(*indicates actuals)	
Staff (III Plan)	1,32,000	30,000	1,02,000.00
Studentships	1,50,000	54,035	6,900.00
Staff	1,61,000	30,000	1,31,000.00
Studentships (Applied Geology)	1,50,000	34,950	1,16,000.00
Field training	15,000	3,000	12,000.00
Himalayan Geology	11,200	5,600	5,600.00
Total	7,75,200	3,24,181	4,70,786.66
HUMANITIES			
Non-recurring			
Library Furniture	71,081	53,552	17,429
Recurring			
Staff for General Education	65,000	12,000	53,000
GENERAL SCHEMES			
Construction of Teachers' Hostel	3,00,000	-	3,00,000
Construction of a hostel for 150 Men students.	3,06,250	2,75,000	31,250
Construction of Warden's quarters and servants quarters.	25,000	-	25,000
Construction of Women's hostel for 48 students.	2,29,651	1,75,000	54,651
Total	8,60,901	4,50,000	4,10,901

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1.	2.	3.	4.
B. BASIC GRANTS:			
<u>Science (Equipment):</u>			
Physics	--	--	1,20,000
Chemistry	--	--	1,20,000
Geology	--	--	80,000
Mathematics & Statistics	--	--	20,000
Total	--	--	<u>Rs. 3,40,000</u>
Books and Journals (All Science Departments)	--	--	<u>1,20,000</u>
<u>Humanities:</u>			
Library Books	--	--	80,000

S U M M A R Y

(Figures in lakhs of Rupees)

	Science	Humanities & Social Sciences.	General	Total
Continuing Schemes	7.64	0.70	4.11	12.45
Basic Grants	4.60	0.80	--	5.40
Total	<u>12.24</u>	<u>1.50</u>	<u>4.11</u>	<u>17.85</u>

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ANNEXURE I

UNIVERSITY GRANTS COMMISSION

Statement showing the approved items and setting estimated expenditure of Fourth Plan development schemes of Varanasi Sanskrit Vishwavidyalaya, Varanasi.

I - (Faculty and Departments)

(Rupees in thousands)

Faculty / Department	Staff					Cost		Other Items including scholarships, fellowships etc.		REMARKS
	Professor	Reader	Lecturer	Other	Total	U.G.C. Share	Cost etc.	U.G.C. Share		
	2	3	4	5	6	7	8	9		
<u>Humanities and Social Sciences</u>										
1. Naya Vyakaran	-	1	-	-	33	16.5	-	-		
2. Sahitya	-	1	-	-	33	16.5	-	-		
3. Nyaya	-	1	-	-	33	16.5	-	-		
4. Vedanta	-	1	-	-	33	16.5	-	-		
5. Baudhya Darshan	-	1	-	-	33	16.5	-	-		
Purchasing & cataloguing of Manuscripts	-	-	-	-	-	-	250	125		
Publication of Sanskrit Texts	-	-	-	-	-	-	150	150		
Total	-	5	-	-	165	82.5				

(Total UGC Share (Col, 7, 8, and 9) = 357.5

1. U.G.C. share for (a) staff and (b) teaching block
continuing in III Plan

(a) 386 (b) ~~183~~ 569

2. Schemes already approved during Fourth Plan

(a) Basic grant for equipment (departmentwise)

(b) Staff (departmentwise & category-wise)

Nil

(Contd.)

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VALLABHAYA SANSKRIT VIKIYAVIDYALAYA

II- GENERAL SCHEMES

(Rupees in thousands)

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan		New Schemes		Total UGC Share	Remarks
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
1. <u>Central Library</u>							
(a) Building	198	-	-	-	-	198	
(b) Staff	-	-	-	32	16	16	
(c) Books	-	100	100	150	150	250	
(d) Furniture	-	107	107	-	-	107	
2. Students Hostel	-	-	-	200	150	150	
3. International Hostel	-	-	-	400	200	200	
4. Others							
(a) Printing Press	71	-	-	-	-	71	
(b) Collection, preservation and utilisation of manuscripts.	2	-	-	-	-	2	
(c) Publication	-	10	10	-	-	10	
(d) Excavation of historical sites.	-	-	-	15	15	15	
Total	271	217	217	787	531	1019	

III - Summary of Allocations (UGC Share to the University for the Fourth Plan

(Rupees in thousands)

University/ Institution	Committed Expenditure on development	Cost of Schemes already approved in IV Plan	New Schemes								General Students amenities	Staff Res.	Misc.	Total (4 to 14)	Grand Total 2+ 3 + 15
			Posts Sc. 'H'	Library Staff	Books	Equipment Sc. 'H'	Deptl. Sc. 'H'	Bldgs.							
	2.	3.	4.	5.	6.	7.	8.	9.	10	11	12.	13.	14.	15	16.
Varanaseya Sanskrit Vishwavidyalaya	340	217	-	82.5	16	150	-	-	-	-	350	-	290	882.5	1943.5

Report of the Fourth Plan Visiting Committee

of the Varanaseya Sanskrit Vishwavidyalaya, Varanasi.

The Committee appointed by the University Grants Commission to assess the Fourth Plan development schemes of the Varanaseya Sanskrit Vishwavidyalaya consisted of the following members:

1. Dr. Surya Kanta,
Head of the Department of
Sanskrit, Pali & Prakrit,
Kurukshetra University.
2. Dr. P.K. Tripathi,
Head of the Department of Law,
Delhi University.
3. Dr. R.V. Joshi,
Head of the Department
of Sanskrit,
Delhi University.

Officers of the Commission

1. Dr. R.C. Gupta,
Development Officer,
University Grants Commission.
2. Dr. T.N. Hajela,
Education Officer,
University Grants Commission.

The Committee visited the Varanaseya Sanskrit Vishwavidyalaya on 30th September, 1967 and discussed the development proposals of the Vishwavidyalaya with the Vice-Chancellor, the Deans of the Faculties and the Heads of the University Departments. The Committee also met the teachers and student representatives of the Vishwavidyalaya.

The Varanaseya Sanskrit Vishwavidyalaya was established in the year 1958 for promoting teaching and research in Sanskrit. In addition to the university departments, the Vishwavidyalaya has a large number of affiliated Sanskrit Pathshálas, scattered all over the country. Some basic facts and figures about the Vishwavidyalaya are given below:

(i) The Vishwavidyalaya runs the following departments: Veda, Navya Vyakaran, Sahitya, Jyotish, Prachin Vyakaran, Agam and Darshan, Sankhya Yoga, Nyaya, Mimansa, Vedanta, Baudhya Darshan, Jain Darshan, Puran Itias and Prachin Sanskrit, Dharamshastra and Karma Kanda, Comparative Philosophy, Pali and Arthavirpad, Arthashastra and Rajshastra, Shikshashastra, and Modern Languages.

(ii) The total student enrolment in the Vishwavidyalaya increased from 291 in 1961-62 to 319 in 1965-66 i.e. by about 10%.

(iii) In 1965-66 the teaching staff in the Vishwavidyalaya consisted of 11 Professors, 30 Lecturers and 27 Instructors. With a student enrolment of 319 in 1965-66, the teacher-pupil ratio works out to 1 : 5.

(iv) During the years 1961-62 to 1965-66, the Vishwavidyalaya awarded Ph.D. degrees to 15 scholars in various subjects.

(v) An analysis of examination results in respect of various examinations during the period from 1961-62 to 1965-66 shows that on an average the pass percentage was 85 at the B.A. and 81.5 at M.A. examinations.

(vi) The Vishwavidyalaya has 2 libraries. In the new library the area of stack rooms is 15,785 sq.ft. and that of reading rooms is 11,115 sq.ft. In the old library the area of stack rooms is 4,541 sq.ft. and that of reading room is 950 sq.ft. There are 89,890 printed volumes and 1,32,458 manuscripts of which 30,000 have not been catalogued and indexed.

(vii) Besides the university departments, the Vishwavidyalaya has a research institute which has existed since the establishment of the Vishwavidyalaya in 1958. This Institute has 3 Research Assistants who carry on their own individual research, guide research scholars and prepare critical editions of old Sanskrit texts. There is one publication Assistant, who looks after the publication of works of the Institute. 76 students have joined the Institute so far. Of these 11 have been awarded the Ph.D. degree and the remaining 65 are stated to be engaged in research. Three research scholars are working in the Institute for D. Litt. (Vachaspati) degree. A few of the research scholars have been given Government of India research scholarships and U.G.C. fellowships. The research publications of the Institute fall under the following categories:-

1. Sarasvati Bhavana Granthamala - in which important texts on Sanskrit, Pali and Prakrit are to be published.
2. Sarasvati Bhavana Nibandhamala - in which research papers on Sanskrit and allied subjects are to be published in Sanskrit, Hindi or English.

- 3
- (563)
3. Sarasvati Sushama - (a quarterly journal in Sanskrit) in which besides research articles, smaller texts are published.
 4. Ganganatha Jha Granthamala - in which important texts in different branches of Sanskrit learning are being published with authoritative Hindi translations and notes.
 5. Sampurnananda Granthamala - in which Sanskrit works mainly of the Acharya students are being published.

PART - II

Meeting with the Vice-Chancellor, teachers and students

The Vice-Chancellor stressed the following:

(i) The specialised studies being conducted in the Vishwavidyalaya require close individual attention to students.

Sanskrit texts have to be read and critically examined and understood under the personal supervision of the teacher. In view of the intensive studies and extra personal supervision required, the rough and ready formula of staff-student ratio is not relevant in the case of the Vishwavidyalaya.

(ii) The Vishwavidyalaya has an unsatisfactory staffing pattern since a number of important departments do not have Readers.

(iii) The 'Instructors' in the Vishwavidyalaya deserve to be upgraded as Lecturers, since they are as well qualified as the Lecturers and are doing the same type of work.

The students whom the Committee met, stated that adequate residential accommodation particularly for women students, and facilities for games should be provided. One of the women students pointed out that while their number in Shikshashastra was large, there was no lady teacher. Some foreign students, especially from Nepal, Sikkim and Burma were also present at the meeting. They asked for adequate hostel accommodation and financial assistance. The students in general referred to the lack of employment opportunities for those who obtained their degrees from the Vishwavidyalaya.

In the meeting with teachers also it was pointed out that the pay scale of Instructors in the Vishwavidyalaya was very low and this should be revised immediately. It was stressed that the Instructors

fulfilled the academic requirements for Lecturers' posts and had been doing the same type of work as the Lecturers. The teachers also referred to the lack of residential accommodation in the Vishwavidyalaya.

PART - III

Utilisation of Third Plan Grants

The statement given in annexure - I shows the payments to be made to the Vishwavidyalaya in the Fourth Plan in respect of development schemes continuing from the Third Plan and the sanctions already given to the Vishwavidyalaya during the current plan period.

During the Third Five Year Plan, the Commission sanctioned schemes for which its share was Rs. 21,80,200 (NR) and Rs. 4,71,000 (R). The total spill-over of Third Plan schemes of the Vishwavidyalaya is Rs. 3,86,000 in respect of recurring schemes and Rs. 4,53,752 in respect of non-recurring schemes. In addition, the Commission has sanctioned Rs. 1 lakh for the purchase of library books and journals, Rs. 1,06,860 for the purchase of library furniture and Rs. 10,000 for the publication of research works and doctoral theses during the Fourth Plan. The total committed expenditure thus amounts to Rs. 10,56,612.

The University Grants Commission earlier requested the Vishwavidyalaya to formulate its Fourth Plan proposals requiring an expenditure of Rs. 10 lakhs for the first priority programmes and an equal amount for the second priority programmes. The Vishwavidyalaya earlier submitted proposals which included the establishment of Law and Science Departments, which were later withdrawn and in their place

revised proposals were submitted. The estimated cost of the revised proposals comes to Rs. Rs. 64,58,840. The broad outlines of these proposals have been given in Annexure - II.

PART - IV

Recommendations

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After a detailed examination of the proposals and discussions with the Vishwavidyalaya authorities, the following recommendations are made :

Department of Navya Vyakaran

The department had 22 students in undergraduate classes, 41 in M.A. classes and 6 were registered for Ph.D. in 1966-67. The number of teachers in the department is 1 Professor, 2 Lecturers and 2 Instructors. The work load of the Professor is stated to be 30 periods per week and of the Lecturers and Instructors 36 periods per week. During the Third Plan period 3 scholars were awarded Ph.D. degree. We recommend that 1 post of Reader may be sanctioned to the department.

Department of Sahitya:

This department undertakes the study of Sanskrit texts and literature. In 1966-67 the student enrolment at the B.A. level was 33, and at M.A. 32. Five students were registered for the doctoral degree. One scholar was awarded Ph.D. degree during the Third Plan. There are 1 Professor, 2 Lecturers and 1 Instructor in the department. The work load is stated to be 36 periods per week per teacher. This department may be provided with 1 Readership.

Department of Nyaya:

In 1966-67 there were 4 students in undergraduate classes and 3 students in postgraduate classes in the department. The present strength of the department is

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1 Professor, 2 Lecturers and 1 Instructor. The average work load per week is stated to be 42 periods for the Professor and 48 periods for Lecturers and Instructors. We recommend that the post of one reader may be provided to the department.

Department of Vedanta:

There were 8 students in undergraduate classes and 9 in postgraduate classes and 1 was registered for the doctoral degree in 1966-67. The department has 1 Professor, 1 Lecturer and 1 Instructor. One scholar was awarded Ph.D. degree during the Third Plan. We recommend that one Reader may be provided to the department.

Department of Baudhya Darshan:

There were 3 students in undergraduate classes and 3 in postgraduate classes in 1966-67. The department has 1 Lecturer and 1 Instructor, the average work load of each being 36 periods per week. The department ought to be headed by a Reader. We recommend that the post of 1 Reader may be sanctioned to the department.

Collection and Cataloguing of Manuscripts:

The proposal of the Vishwavidyalaya involves an expenditure of Rs.2.87 lakhs for 5 years. The Vishwavidyalaya has at present more than 30,000 unsorted manuscripts. Under this scheme the Vishwavidyalaya proposes finally to prepare and publish descriptive catalogues of the manuscripts collected by them. The Commission during the Third Plan sanctioned a scheme for the preparation of bibliography of manuscripts and rare books at an estimated cost of Rs. 2 lakhs of which the Commission's share was Rs. 1 lakh. The scheme could not be implemented during the Third Plan. The Vice-Chancellor emphasised that valuable manuscripts are lying all over the country especially in West Bengal

and if these manuscripts are not secured and preserved, they are likely to be lost. We recommend that the scheme sanctioned by the Commission during the Third Plan may be re-sanctioned at an estimated cost of Rs.2,50,000.

Publication of Sanskrit Texts:

A critical and thorough study of Sanskrit texts form the core of Sanskrit education. A number of old texts are out of print and are to be restored. We found that the Vishwavidyalaya has been taking a keen interest in this regard and has published a number of Sanskrit texts with detailed annotation. We were happy to note that these texts are now being printed in the University press. The Vishwavidyalaya proposes to undertake the publication of Sanskrit texts, Pali, Athakathas and Athakatha Mahakosh involving a non-recurring expenditure of Rs.9 lakhs during the Fourth Plan. We are of the view that the Vishwavidyalaya may phase out this programme and may undertake a part of this work within an expenditure of Rs.1,50,000 during the Fourth Plan. We recommend that the Commission may approve this expenditure and extend assistance to the Vishwavidyalaya on 100% basis.

Library:

The Central Library has two sections, one for manuscripts and the other ^{for} printed books. The manuscript section has more than 1,02,458 manuscripts. A catalogue of these manuscripts has been published and more than 30,000 manuscripts are lying unsorted and uncatalogued. In the book section there are more than 83,110 volumes and 6,780 journals. The book section has been now shifted to the new library building while the manuscript section

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continues to be housed in the old building. This section possesses a large number of books on indology. Some of them are rare volumes. The Vishwavidyalaya has been facing some difficulty during recent years owing to the shortage of staff in the library. Since the library remains open for 12 hours in a day and scholars from other Universities also visit the library, the quantum of work has considerably increased during recent years without a corresponding increase in the staff.

We recommend that 1 library assistant and 2 cataloguers may be provided to the library of the Vishwavidyalaya during the Fourth Plan. In addition, Rs. 1.50 Lakhs may also be provided for the purchase of books, journals and manuscripts.

General Schemes:

Since the number of women students has increased during past years, and a number of them hail from Nepal, Sikkim and other neighbouring countries, we feel that the Vishwavidyalaya urgently needs a women's hostel. We understand that a number of women students declined to seek admission to the Vishwavidyalaya since there was no residential accommodation for them. We, therefore, recommend that a women's hostel for 25 students and an International hostel for 50 students, may be provided during the Fourth Plan.

We were informed that the Vishwavidyalaya had started some time back the excavation of historical sites, but owing to the lack of proper tools and funds, this had to be discontinued. We recommend that an amount of Rs.15,000 may be sanctioned to the Vishwavidyalaya for the purchase of tools and for other expenditure required for the excavation of historical sites.

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The financial implications of these recommendations are given in Annexure III.

A brief resume is as under:

<u>Total estimated cost</u>		<u>Share of the U.G.C.</u>
Recurring	Rs. 4,47,400.	Rs. 2,23,700
Non-Recurring	Rs. 9,15,000	Rs. 6,65,000
	<hr/>	<hr/>
Total	Rs.13,62,400	Rs.8,88,700
	<hr/>	<hr/>

Including the committed expenditure on Third Plan schemes amounting to Rs.8,39,752 and the new sanctions amounting to Rs.2,16,860 given to the Vishwavidyalaya during the Fourth Plan, the total financial allocation (UGC share) amounts to Rs. 19,45,312 for the Fourth Plan period.

Revision of scale of pay of Instructors:

There are 27 Instructors in the Vishwavidyalaya who are teaching University classes, as well as, school classes. The Vice-Chancellor indicated that although these Instructors were as well-qualified as the Lecturers, they continue to be in the scale of Rs.200-450. He stressed that their scale of pay must be revised and the posts upgraded. We feel that there is a strong case for the revision of scale of pay of Instructors subject to appropriate academic screening and recommend that the Government of U.P. may be requested to look into the matter. We also feel that in future more posts of Instructors may not be created. The Committee noted that during the Third Plan the proposal for the revision of salary scales of the Instructors had been accepted by the Commission but this could not be implemented for want of the matching share. The Committee further noted that during the Fourth Plan the scheme for revision of salary scales of University and college teachers is being administered by the Government of India and the State Governments. We, therefore, recommend that the Government of U.P. may consider the revision of pay scale of Instructors sympathetically.

We are happy to place on record our thanks to the Vice-Chancellor and the Vishwavidyalaya authorities for giving us cooperation in our work.

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Annexure I

Statement showing committed expenditure on Third Plan schemes and new sanctions given in the Fourth Plan - first charge on the Fourth Plan allocation.

(i) Committed expenditure of recurring schemes

(Fig. in Rs.)

Name of the Scheme	Approved cost (UGC share)	Grants paid upto 31.3.66	Grants paid after 31.3.66	Balance to be paid during the Fourth Plan period.	Total spill-over
1	2	3	4	5	6
1. Deptt. of Yoga & Tantra Raja Shastra and Arthashastra	1,45,000 (for 2 yrs.)	60,000	60,000	3,26,000 (for 3 yrs.)	3,86,000
				Total:	3,86,000

(ii) Committed expenditure of non-recurring schemes

1. Construction of Arts Block	4,12,500	2,30,000	1,00,000	82,500	1,82,500
2. Printing Press	1,20,667	50,000	18,000	52,667	70,667
3. Collection, Preservation and utilisation of manuscripts	22,700	19,000	2,252.10	-	2,252.10
4. Library building.	5,33,333	3,35,000	75,000	1,23,333	1,98,333
5. Preparation of bibliography of manuscripts and rare books	1,00,000	-	(The scheme could not be implemented)		
6. Purchase of library books	2,00,000	1,45,000	(Balance has lapsed)		
7. Equipment and furniture for deptts. of Yoga & Tantra, Raja Shastra and Arthashastra	16,000	16,000	-	-	-
				Total:	4,53,752.10

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(iii) New Schemes sanctioned during the Fourth Plan:

<u>Name of the Scheme</u>	<u>U.G.C. Share</u>
1. Purchase of library books and journals	1,00,000
2. Purchase of library furniture	1,06,860
3. Publication of Research works and doctoral theses	10,000
	<hr/>
Total:	2,16,860

The total committed expenditure, which would be the first charge on the Fourth Plan allocation is:

(i) Third Plan recurring schemes :	Rs. 3,86,000
(ii) Third Plan non-recurring schemes:	Rs. 4,53,752
(iii) New schemes already sanctioned:	Rs. 2,16,860
	<hr/>
Total:	Rs. 10,56,612

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Annexure II

Revised IV Plan proposals (priority list)
of the Varanaseya Sanskrit Vishwavidyalaya

(Fig. in Rs.)

Sr.No.	Name of Scheme	Recurring Total	Non-recurring Total	Grand Total
1.	Upgrading of the post of Instructors	2,92,312	-	2,92,312
2.	Creation of post of Readers	7,00,800	-	7,00,800
3.	Creation of post of Lecturers	2,01,600	-	2,01,600
4.	Scheme for Intensive study of Buddhism & Jainism	7,10,400	-	7,10,400
5.	Cataloguing of Manuscript	2,86,940	-	2,86,940
6.	Scheme of Bibliography	2,39,088	5,03,000	7,02,088
7.	Multipurpose Auditorium	-	4,00,000	4,00,000
8.	Research & Publications	1,45,560	16,92,000	18,37,560
9.	Women's Hostel & International Hostel	-	6,00,000	6,00,000
10.	Scholarships and Fellowships	4,50,000	-	4,50,000
11.	Evening classes for teaching Sanskrit	12,000	-	12,000
12.	Extension of Deptt. of Veda & Vedic Museum	35,140	1,65,000	2,00,140
13.	Excavation of the historical sites	25,000	-	25,000
	Total:	30,90,840	33,60,000	64,50,840

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ANNEXURE III

Financial implications of the recommendations
of the Visiting Committee.

Name of the Scheme	Total estimated cost		Share of the U.G.C.	
	R	NR	R	NR
			(Figures in Rupees)	
Staff: 5 Readers: one each for the Departments of Navya Vyakaran, Sahitya, Nyaya, Vedanta and Baudhya Darshan.	1,65,000 (For three years)		82,500 (for three years)	
Collection and cataloguing of manuscripts	2,50,000		1,25,000 (R + NR)	
Publication of Sanskrit Texts		1,50,000		1,50,000
<u>Library</u>				
(a) Staff: Library Assistant 1 in the scale of Rs.250-400 Asstt. Cataloguers - 2 in the scale of Rs.150-250.	14,400		7,200	
	18,000		9,000	
(b) Books, Journals & Manuscripts		1,50,000		1,50,000
Women's Hostel for 25 students (including furniture).		2,00,000		1,50,000
International Hostel for 50 students (including furniture).		4,00,000		2,00,000
Excavation of historical sites.		15,000		15,000
Total	4,47,400	9,15,000	2,23,700	6,65,000

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Mova-Bharati

II - General Schemes

(Rupees in thousands)

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan		New Schemes		Total UGC Share	REMARKS
		Cost	UGC Share	Cost	UGC Share		
1	2	3	4	5	6	7	8
1. Central Library							
(a) Building		1003	1003	-	-	1003	
(b) Staff		-	-	-	-	-	
(c) Books		200	200	-	-	200	
2. Students Hostel	862	-	-	1150	1150	2012	+ includes 150 for improvement in title
3. Students' Home/ Non-Resident Students Centre	-	-	-	100	100	100	
4. Teachers' Hostel	-	-	-	300	300	300	
5. Health Centre							
6. Staff Quarter includ- ing Vice-Chancellor's residence	161	-	-	100	100	261	
7. Other Building	691	-	-	-	-	691	
8. Others							
(i) Publication of Research Work		20	20	-	-	20	
(ii) Preservation of M.S.S.		-	-	25	25	25	
(iii) Micro-film Unit		-	-	30	30	30	
(iv) Other items	330						

Total:

2044

1223

1223

1705

1705

4972

III - Summary of Allocations (UGC Share) to the University for the Fourth Plan period

(Rupees in thousand)

University/ Institution	Committed expenditure or develop- ment	Cost of scheme already approved in IV Plan	New Schemes								Deptt. Bldg.			General		Total
			Posts		Library		Equipment		Sc.	H	Sc.	H	Students ambit- ies	Staff res.		
			Sc.	H	Bldg.	Books	Sc.	H								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1. Bharati	6238	1779	174	144	-	290	195	5	550	607	1250	700	110	3725	1172	

UNIVERSITY GRANTS COMMISSION

VISVA BHARATI

Statement showing the approved items and estimated expenditure of the Fourth Plan development schemes of Visva Bharati.

I - Faculties and Departments

(Rupees in thousand)

Faculty/ Departments/Item	Staff				Cost		Deptt. Books	Equipment		Teaching Block/ Labs.		Other items including scholarships fellowships etc.		Remarks
	Prof.	Reader	Lect.	Other	Total	UGC share		Cost	UGC share	Cost	UGC share	Cost	UGC share	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
<u>1. Humanities</u>														
1. History	-	-	1	-	-	-	15	-	-	-	-	-	-	-
2. Ancient Indian History	-	-	-	-	-	-	15	-	-	-	-	-	-	-
3. English	-	-	-	-	-	-	15	-	-	-	-	-	-	-
4. Chinese Studies	-	-	-	-	-	-	15	-	-	500	500	-	-	-
5. Economics & Pol. Science.	-	-	-	-	-	-	20	5	5	-	-	-	-	-
6. Bangali	-	-	-	-	-	-	10	-	-	-	-	-	-	-
7. Hindi	-	-	-	-	-	-	10	-	-	-	-	-	-	-
8. Islamic Studies	-	-	-	-	-	-	10	-	-	-	-	-	-	-
9. Sanskrit	-	-	-	-	-	-	10	-	-	-	-	-	-	-
10. Geography	-	-	-	-	-	-	10	-	-	-	-	-	-	-
<u>2. Sciences</u>														
1. Physics	-	-	2	-	-	-	25	50	50	50	50	-	-	-

3. Botany & Zoology	-	-	1	2	40	40	40	450	450	-	-	+ Botanical Garden & Animal House		
4. Mathematics	-	-	-	-	25	-	-	-	-	-	-			
5. Gas Plant	-	-	-	-	-	-	-	-	-	25	25			
6. Workshop	-	-	-	2	-	25	25	-	-	-	-	0 inclu inr Shed		
C. Fine Arts														
1. Kala Bhavan	2	-	1	-	30	20	20	-	-	-	-			
2. Sangeet Bhavan	-	-	-	-	5	5	5	-	-	-	-			
D. Vinaya Bhavan	-	-	-	-	10	5	5	107	107	-	-			
											Total UGC share			
Total	2	-	7	-	318	318	290	200	200	115.7	115.7	55	55	=2020

1. U.G.C. Share for continuing III Plan Schemes (a) Staff 2994* (b) Teaching Block/Labs. 1200 * including Palli Chiksha Sadana
2. Schemes already approved during IV Plan.
- (a) Basic Grant for equipment (Department-wise) 420 (Physics 120 Chemistry 120; Botany 80; Zoology 80; Maths/Stats. 20)
- (b) Staff (Department & Categorywise) 136 { Chemistry = 1P
Botany = 1L
Zoology = 1L

Contd.

University Grants Commission

Report of the Visiting Committee of Visva-Bharati

The University Grants Commission appointed a Visiting Committee with the following members to examine the development proposals of Visva-Bharati for the Fourth Five-Year Plan:

Prof. M. V. Mathur,
Vice-Chancellor,
Rajasthan University,

Prof. R. S. Sharma,
Head of the Department of History,
Patna University.

Prof. Gurbux Singh
Head of the Department of Chemistry,
Banaras Hindu University.

Prof. D. D. Pant,
Head of the Department of Botany,
Allahabad University.

Prof. N. Chowdhury,
Dean, Faculty of Music & Fine Arts,
M.S. University of Baroda.

Officers of the Commission

Dr. P. J. Philip,
Secretary, U.G.C.

Shri L. R. Mal,
Education Officer, U.G.C.

The Committee visited the University on 24th and 25th September, 1967 and had detailed discussions on the Fourth Plan proposals of the University with the Vice-Chancellor and members of the teaching staff. The Committee visited different departments of the University, its laboratories, library and hostels at Santiniketan and the institutions (Palli Siksha Sadana and Cottage Industries Training Centre, etc) at Sriniketan. The Committee also met student representatives and had detailed discussions with them relating to problems of student welfare in the University.

Visva-Bharati was founded by the late Rabindra Nath Tagore with the following objects:

- 1- to study the mind of Man in its realisation of different aspects of truth from diverse points of view;

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- ii. to bring into more intimate relations with one another, through patient study and research, the different cultures of the East on the basis of their underlying unity;
- iii. to approach the West from the standpoint of such a unity of the life and thought of Asia;
- iv. to seek to realise in a common fellowship of study the meeting of the East and the West and thus ultimately to strengthen the fundamental conditions of world peace through the establishment of free communication of ideas between the two hemispheres; and
- v. with such ideals in view to provide at Santiniketan aforesaid a Centre of Culture where research into and study of the religion, literature history, science and art of Hindu, Buddhist, Jain, Islamic Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals which is necessary for true spiritual realisation in amity, good fellowship and cooperation between the thinkers and scholars of both Eastern and Western countries, free from all antagonisms of race, nationality creed or caste.

Visva-Bharati was declared as an Institution of national importance to provide for its functioning as a unitary, teaching and residential university by an Act of the Parliament in 1951.

The Institutions located at Visva-Bharati and the details of facilities provided by them are indicated below:

1. Institutions at Santiniketan:

(a) Patha-Bhavan (Higher Secondary School) - provides instruction for the Higher School Certificate Examination Course of 11 years duration in two streams - Humanities and Science. The medium of instruction is Bengali and English.

(b) Siksha-Bhavan (College of Graduate Studies) - provides facilities for B.A. and B.Sc. (Honours) courses.

(c) Vidya-Bhavan (College of Postgraduate and Research Studies) - provides for M.A. courses in Humanities and Social Sciences and M.Sc. in Mathematics, four-year Postgraduate Diploma Course in Chinese, two-year Senior Diploma Course in Indo-Tibetan Studies and facilities for doctorate degrees. The Bhavan has a Department

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of Islamic Studies also where only research work is done.

(d) Rabindra-Bhavan (College of Tagore Studies and Research) - provides facilities for research studies into the life and works of Rabindranath leading to Ph.D. degree.

(e) Vinaya-Bhavan (College of Education) - provides facilities for teaching B.Ed. and M.Ed.

(f) Kala Bhavan: (College of Fine Art and Crafts) - provides facilities for a two-year Certificate Course in artistic handicrafts and a five-year Diploma Course in Art and Crafts (drawing and painting, Graphic Art, Modelling and Sculpture etc, etc.)

(g) Sangeet Bhavan (College of Music and Dance) - provides facilities for a four-year diploma course in Music and Dance; a four-year degree and two-year certificate course in Music and dance have been started in 1966-67.

Besides the above institutions, the Visva-Bharati has a Centre of Advanced Study in Philosophy and an Agro-Economic Research Centre (sponsored by the Ministry of Food & Agriculture)

2. Institutions at Sriniketan:

(a) Palli-Samgathan Vibhaga (Department of Rural Reconstruction)

(b) Siksha Satra (Higher Secondary School for Rural Children)

(c) Silpa Sadana (Cottage Industries Training Section)

(d) Palli Siksha Sadana

Besides, the University has a junior Basic Training College, a Social Education Organisers' Training Centre, Home Economic Training Centre and People's Education Council at Sriniketan. The University maintains its publishing department at Calcutta the main assignments being publication of Rabindranath Tagore Works.

The total number of students in various institutions of the University is given below:

579

Patha Bhavan	551
Siksha Bhavan	298
Vidya Bhavan	328
Vinaya Bhavan	82
Sangeet Bhavan	73
Kala Bhavan	122
Siksha Satra	274
C.I.T.C.	187
Palli Siksha Sadana	66

Total: 2023

A statement indicating the enrolment(stage-wise), teaching staff and examination results etc. of various Departments is enclosed as Appendix I.

On the basis of the recommendations of the Visiting Committee appointed by the Commission to assess the requirements of Visva-Bharati for the Third Plan period, the Commission had allocated an amount of Rs.88.55 lakhs (U.G.C. share) for the Third Plan period as under:

Science Departments	Rs.21.58 lakhs
Humanities Departments	Rs.19.60 lakhs
General Schemes	Rs.47.37 lakhs
<u>Total:</u>	<u>Rs.88.55 lakhs</u>

These included a spill-over of Rs.53.53 lakhs (Rs.12.90 lakhs for Humanities Departments and Rs.40.63 lakhs for general schemes) on account of Second Plan Schemes. The Third Plan

Visiting Committee had made the following important observations:

"Since Science courses are to be introduced in this University for the first time at the Degree and Postgraduate level, there is a natural apprehension that this may affect the essential character of this University and may deprive the Humanities and other Arts Departments of the first rate students, who may be attracted to take science courses. The University has to take necessary safeguards to prevent such a situation and to promote a desirable synthesis between Humanities and Science courses. One of the ways of doing this would be by limiting admission to the Science courses to be opened a new. The number of admissions should not exceed 40 and teaching in Science subjects should be limited to the Honours level, excepting in the field of Mathematics in which the University may be permitted to open postgraduate courses. The latter seems possible in view of the very philosophical nature of the subject of Mathematics and it fitting more suitably with the atmosphere prevailing in the University. Since the admission to the Honours classes will be limited facilities for subsidiary subjects may not be made in more than two or three fields such as Chemistry and Physics. The question of opening postgraduate studies in these

subjects and introducing other basic science subjects should not be taken up at this stage.

ii. There could be and should be active cooperation between the Bengali department and the Rabindra Bhavan to the Mutual advantage of both.

iii. The Institution of a full-fledged department of Asian Studies with Honours or Master's courses should wait for some time. The subject Asian Studies is rather vague and the lack of clarity in regard to its contents might result in diffused work. A beginning may, however, be made by expanding and intensifying the work done by the Cheena Bhavan. The University may also explore the possibility of introducing one or two optional papers in the subject at the M.A. level in the Philosophy courses as well as in the Ancient Indian History course.

iv. The development of a department of Linguistics may take place in stages. It will, however, be necessary to confine teaching of Linguistics to start with to one or two papers in the Honours courses in languages already taught in the University."

The Commission had agreed to the University starting Honours courses in Chemistry, Physics, Zoology, Botany and Mathematics during the Third Plan. A statement indicating the financial implications of the development schemes continuing from the earlier plans is enclosed as Appendix II.

During the Third Plan, the University started the following courses:

1961-62

- i. B.Sc. (Hons) in Mathematics with Physics and Chemistry as subsidiary subjects.
- ii. B.A. (Hons) in Ancient Indian History and Culture.
- iii. M.A. in History.

1962-63

- i. B.Sc. (Hons) in Chemistry

1963-64

- i. B.Sc.(Hons) in Physics
- ii. Botany and Zoology as subsidiary subject in B.Sc.
- iii. B.A.(Hons) in Chinese Studies
- iv. M.Ed.
- v. M.A./M.Sc. in Mathematics

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vi. 4-year Degree course in Agriculture

vii. 3-year Degree courses in Social Science/Social work.

1964-65

i. B.A. (Hons) in Comparative Religion

1965-66

i. B.Sc. (Hons) in Botany and Zoology

ii. Education as a subsidiary subject for the Degree Course in Art.

The Committee was also informed that all the posts of professors, readers, lecturers and assistant lecturers and instructors sanctioned for Humanities and Science Departments

during the Third Plan had been filled. The construction of

buildings however, was delayed due to non-availability of

building materials specially cement and steel and other

procedural difficulties. But even in spite of these, the

University made considerable progress in the construction work.

During the Third Plan period as many as nine projects were

completed and fourteen were at various stages of completion

at the end of the Third Plan.

The Committee was further informed that the U.G.C.

had already allocated the following basic grants to the

University for the Fourth Plan period.

Science Department

.... Rs.4.20 lakhs

Physics	Rs.1,20,000
Chemistry	Rs.1,20,000
Botany	Rs. 80,000
Zoology	Rs. 80,000
Maths/Stat	Rs. 20,000

Books and Journals

.... Rs.2.00 lakhs

Science Departments	Rs.0.65 lakhs
Humanities	Rs.1.35 lakhs

Apart from the basic grants, the Commission had also sanctioned the following projects.

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1. Library Building Rs.10.03 lakhs
2. Publication of Research work Rs. 0.20 lakhs
3. Staff for Science Departments:
 - (a) 1 Professor for Chemistry
 - (b) 1 Lecturer each for Botany and Zoology.

Thus, the amount already committed to the University for schemes continuing from the earlier plans and those sanctioned during the Fourth Plan is indicated below:

<u>Scheme</u>	<u>Recurring</u> Rs.	<u>Non-Recurring</u> Rs.	<u>Total</u> Rs.
1. Continuing schemes	29,93,752	32,43,766	62,37,518
ii. Basic grant			
Equipment	-	4,20,000	4,20,000
Books	-	2,00,000	2,00,000
iii. Schemes sanctioned during IV Plan	1,36,000	10,23,000	11,59,000
<u>Total:</u>	<u>31,29,752</u>	<u>48,86,766</u>	<u>80,16,518</u>

Humanities Departments:

During the course of discussion with the teaching staff in the Humanities Departments, it was pointed out that the enrolment in the University had not gone up during the last few years with the result that the cost per scholar continued to be very high as compared to other universities. The Committee was informed that the University was mainly a residential institution except for some day scholars who could not be accommodated in the University, because of shortage of hostel accommodation. There was great demand for admission to various courses in the University but the number had to be restricted owing to lack of adequate hostel accommodation. The Committee was also informed that on account of acute shortage of accommodation for teaching and seminar

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work, the teachers' rooms had to be turned into class rooms and that a faculty building was one of the first needs of the University. On a query regarding the efficacy of the open-air class system, the general opinion seemed to be that the system did not work well because of the uncertainty of weather conditions specially during the summer season and further the students were not very favourably inclined to attending the classes in open-air. The Committee was further informed that the class period was of 40 minutes duration and the general practice was to combine two periods so that the teacher had enough time for a thorough discussion of the topic.

The Departments indicated the following requirements for strengthening their existing activities and for further development.

i. Ancient Indian History:

The Department proposed to start a journal for publishing the research papers of teachers and students.

ii. History:

One Reader and one Lecturer to introduce an optional paper.

iii. Geography:

Additional staff for starting Honours courses for which there was a great demand.

iv. English

Three additional Lecturers of which two for starting courses in French and German. The Department also proposed to start its own journal.

v. Sanskrit, Prakrit & Pali

One additional Lecturer for strengthening the existing activities of the Department.

vi. Economics & Political Science

Additional teachers for introducing special papers in Econometrics, Monetary economics and international economics

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and two Calculating machines.

vii. Bengali:

Two assistant lecturers for higher secondary scheme and one lecturer each for undergraduate and postgraduate stages.

viii. Oriya:

One Professor and one editor of manuscripts.

ix. Hindi:

One office assistant to assist the Editor in the managerial work of the Hindi quarterly and grant for publishing research works and purchasing Hindi journals.

The Committee considered the proposals of these departments and agreed to recommend the following:

- i) One lecturer for the Department of History
- ii) grants as indicated below for the purchase of books and journals and equipment.

(a) History, Ancient Indian History, English and Chinese Studies	Rs. 15,000 each
(b) Economics and Political Science	Rs. 20,000
(c) Bengali; Hindi, Islamic Studies, Sanskrit & Geography	Rs. 10,000 each
(d) Equipment for Department of Economics	Rs. 5,000

With regard to the proposal for a faculty building the Committee noted that the departments were cramped in the existing building and there was a genuine need for additional accommodation for teaching and research work of the Humanities departments. The Committee agreed that the University may draw a plan for the Humanities Block costing Rs. 10 lakhs approximately; but the expenditure may be spread over in the Fourth and Fifth Plan. During the current plan, an amount not exceeding Rs. 5 lakhs may be spent on this building. The Committee however, felt concerned with regard to the attitude to the open-air class system. The University has a distinct tradition and culture of its own and every effort should be made to retain the life of simplicity and contact with nature which received great emphasis during its early formative years. We should take care that this out-look and faith are not entirely given up in favour of the new stress on brick

and mortar. The Committee also observed that the architecture of the new buildings does not fit in with the surroundings of the University. While suitable and convenient accommodation for teaching and research work is essential, the University would do well to put up buildings, which take due account of the traditions and background of the University.

The Committee would also make the following observations:

i. The courses of study in English appear to be literature oriented rather than language oriented. It would be necessary to strengthen the latter in view of the need to increase the ability of the students to use English as a library language.

ii. It would be desirable to establish intellectual communication between the Cheena Bhavan and the department of Chinese Studies of the University of Delhi.

iii. The University provides an ideal situation and conditions for the intensive study of problems of agricultural economics and it could become in course of time an outstanding centre in this field.

Science Departments:

During the course of discussion with the teachers of the Science departments, the Committee was informed that for admission to honours course in Science subjects, a student should have atleast 45% marks in aggregate and 50% in the subjects concerned in the qualifying examination. The University had previously not been administering any competitive test for admission of students to honours courses; but such a test was tried during the current year. As in the case of Humanities and Social Sciences, in Science subjects also the class period is of 40 minutes duration and generally two periods are combined. There is no specialisation at the honours level.

The Committee was informed that the University is keen to start postgraduate courses in science subjects. In the absence of facilities for these courses, it was stated that it is very difficult for the University to attract good students and good teachers. The students had to face a real difficulty after completing the honours courses because there is no provision for further studies in this subject in the University. The students were not easily admitted in other universities in West Bengal, because the number of seats in the postgraduate courses in those universities was limited and they gave preference to their own students even if students from Visva-Bharati were better qualified.

The enrolment in Honours course in Science subjects is as under:

Botany	23
Zoology	9
Physics	44
Chemistry	78

The annual in-take in the Honours course, the Committee was informed is as under:

Physics	20
Chemistry	30
Botany	10
Zoology	10

The Committee considered the proposal of the University for starting postgraduate classes and was not sure whether at present it would not be more in keeping with the special features and attainments of Shantiniketan to develop further such disciplines as ^{fine} arts and literature, and studies centred round Cheena Bhavan and such other specialities of Shantiniketan for which the ^{University} was particularly suited. The Committee was not opposed to the development of science subjects but felt that the enormous resources required for buildings and equipment necessary to develop efficient postgraduate courses in science alongwith arrangements ^{for} research may not lead to commensurate results. The Committee was also of the opinion that although the development of postgraduate studies should normally be a logical development after the honours courses have been established, in view of the fact that these

courses have been started only recently and owing to limitation of financial resources, the University had not yet attained sufficient standard at the honours level, introduction of post-graduate courses, could be considered at a later stage in the 4th Plan or in the fifth plan.

The Committee at the same time felt concerned about the genuine difficulties experienced by science students in not having any avenues for further studies either in Visva-Bharati or in any other universities in West Bengal. The Committee would, therefore, request the U.G.C. seriously to consider this question and to create such opportunities for postgraduate studies as required by students who qualified in the honours course provided by the University.

The Committee after visiting the science laboratories was convinced that the existing laboratories for Zoology and Botany were not of the required standard and there was need for new laboratories for these subjects. The Committee also felt that it was necessary to strengthen the science departments, generally and also the departmental libraries. In the light of the above considerations the committee recommend the following staff/grants for the science departments:

Physics:

Lecturers	- 2
Books	- Rs. 25,000
Lab. fittings & furniture	- Rs. 50,000
Equipment	- Rs. 50,000

Chemistry:

Lecturers	- 2
Books	- Rs. 25,000
Lab. fittings & furniture	- Rs. 50,000
Equipment	- Rs. 50,000

Botany & Zoology:

Lab. Building (Biological Sciences Block upto 15,000 sq.ft.)	- Rs.4,50,000	(including furniture & fittings)
Lecturer (Botany)	- 1	
Books (Botany)	- Rs. 20,000	
Equipment (Botany)	- Rs. 20,000	
Herbarium Assistant	- 1	
Botanical Garden	- Rs. 15,000	

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Books (Zoology)	- Rs. 20,000
Equipment (Zoology)	- Rs. 20,000
Museum Assistant	- 1
Animal House	- Rs. 15,000

Mathematics:

Books	- Rs. 25,000
Gas Plant	- Rs. 25,000

The Committee also agreed that the University should have a small workshop for carrying out repairs to the scientific instruments and recommended the following grants for this purpose.

Workshop shed and Equipment	- Rs. 25,000
Mechanic	- 1
Store-keeper	- 1

The Committee further suggest that the planting and care of trees in the university campus may be made a responsibility of the Department of Botany.

Fine Arts:

The Committee was informed that a degree course had been introduced in the Sangeet Bhavan in 1966 and in the Kala Bhavan in 1967. The University required 5 posts of lecturers for the degree course introduced in Kala Bhavan in addition to seven already in position. It appeared to the Committee after going round the Kala Bhavan, Sangeet Bhavan and Rabindra Bhavan that these departments had not been given adequate attention commensurate with their importance in Visva-Bharati. The Kalabhavan studio is inadequate for teaching of life study or for mounting large-size clay works. Formerly, Shantiniketan used to concentrate mainly on the miniature type of work and did not favour large-size life study which became an essential part of training for degree course looking to the general standards for such courses in other universities. The Department requires atleast 3 studios of 80' x 35' for the three main branches i.e. painting, sculpture, and graphic art. Further one of the important part of teaching in Kalabhavan, the Committee observed centres round the museum and its good collection of paintings and bronze and wood carving as well as other artistic crafts. The Committee found that although the museum had a very large collection of art specimens of the East

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it does not have enough space to display the art treasure properly. It seemed desirable to provide additional accommodation for displaying as many of the collections as possible. The Committee also felt that the museum is best organised under the Art History section. It would also be desirable to expand the museum and provide a lecture room with arrangements for projection. Apart from this, some recurring grant would also be necessary for acquiring works of art and their maintenance and mounting of various paintings and also for building up a proper reference library of art for the degree course which had been introduced in 1967. The Committee recommends that the university may work out a detailed scheme for the development of the Kala Bhavan in the light of the recommendations made above which may be considered by the U.G.C. and assistance provided, if possible, in the IV plan period. For strengthening the existing degree course in the Kala Bhavan, the Committee recommended two professorships - one for Sculpture and the other for Graphic Arts and a lecturership for Art History, instead of five lecturers asked for by the University. The Committee also recommends the following grants:

Kala Bhavan

Books	Rs. 30,000 (Rs. 15,000 for Fine Arts and Rs. 15,000 for Painting and Sculpture)
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Equipment (Bronze casting)	Rs. 20,000
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Sangeet Bhavan:

Books	Rs. 5,000
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Equipment	Rs. 5,000
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Vinay Bhavana

Among the requirements of the institution the following were stated to be very necessary;

1. Five lecturers for strengthening the existing activities.
2. Equipment for Psychology Laboratory
3. Expansion of Library building
4. Hostel for students
5. Bus for taking students to practice schools

Contd.

6. Canteen.

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The Committee was informed that the Commission had approved a proposal for a laboratory for Geography and Psychology for the institution at a cost of Rs. 1,06,700 during the Third Plan. This project was not however taken up in the interest of economy. The Committee feels that a laboratory is urgently required for the efficient working of the institution. It is, therefore, recommended that the scheme for the construction of the laboratory, as approved during the Third Plan, may be revived and assistance originally agreed to (Rs. 1,06,700) may be provided. Besides, a grant of Rs. 10,000 for the purchase of books and Rs. 5,000 for strengthening the Psychology laboratory may also be approved. The Committee is convinced that, in view of the special character of the University, it is desirable to give fine arts bias to the courses provided by the Vinay Bhavan.

Central Library

The Committee was informed that the University has 9 sectional libraries and 17 seminar libraries apart from the Central Library which contain about 2,70,000 books and 12,000 manuscripts. The library provides open access to students and the working hours are from 6.30 a.m. to 8.30 p.m., with a lunch break. About 10,000 books are added to the library every year and about 350 periodicals are subscribed to. The University also receives about 500 periodicals either gratis or in exchange. The number of books issued daily was about 500 and further increasing. The library used the Dewey System of classification. There were about 2,000 uncatalogued books which were received mostly as gifts.

The Committee was informed that the Central Library had 4 professionals - one in the grade of Rs. 1000-1500 one in the grade of Rs. 700-1100 and two in the grade of Rs. 400-800, besides the supporting ministerial staff. The sectional libraries had three professionals and one professional assistant. The University proposed the setting up of a Documentation

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Centre to publish micro-thoughts and periodicals and for that they required a Documentation Officer and a Professional Assistant. The University desired to have additional ministerial staff for strengthening the library services.

The Committee took note of the existing staff and felt that the present staff strength of the library (including the sectional libraries) was adequate and at this stage no additional staff was necessary. The Committee, however, emphasised that the work of cataloguing of the books should be completed urgently. It was further observed that the university library was at present located in an old building and required additional accommodation for providing proper library services and reading room facilities. The position, however, would improve after the new library building which had already been sanctioned came up.

Students' Hostel:

The number of students living in hostels in the University is as indicated below:

Patha Bhavan	272
Siksha Bhavan	189
Vidya Bhavan	192
Vinaya Bhavan	80
Sangit Bhavan	37
Kala Bhavan	107
Siksha Sata	31
C.I.T.C.	14
Palli Siksha Sadana	132

Total: 1054

The Committee was informed, as already pointed out, that the University was experiencing great difficulty with regard to hostel accommodation for students and due to non-availability of seats in the hostels, the University had been refusing admission to a number of students every year. To meet the demand for more seats in the hostels, the University had been compelled to convert a few staff quarters, some rented buildings and Purva Palli Guest House into temporary hostels. In spite of these, the university hostel accommodation was not enough to cope with the demand. The University authorities emphasized the necessity of more hostels in view of the special character

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of the University. The Committee agreed that the University may be assisted for the construction of two hostels (100 seated each) at an ~~estimated~~ cost of Rs. 10 lakhs on the basis of the provision made for the hostel for Siksha Bhavan under construction.

The Committee also looked into the cooking and dinning arrangements in the hostels. It was found that the general refectory of the University catered to about 800 students without commensurate facilities. Further the dinning hall, was not properly ventilated and the system of cleaning the utensils also did not appear to be satisfactory. The University would like to have separate kitchens and dinning halls for each Bhavan. The Committee agrees that these changes are necessary and recommend that an amount of Rs. 1,50,000 may be provided to the University to bring about these improvements in a phased programme.

Staff quarters:

The number of teachers living in the university quarters is given below:-

Professors	12
Readers	26
Lecturers	86

The Committee was informed that the problem of finding residential accommodation for the staff was getting more acute every year. As the University was situated in a rural area, arrangements had to be made to provide residential accommodation in order to attract and retain good teachers. The U.G.C. had sanctioned a grant of Rs. 14 lakhs to the University for 45 units of staff quarters during the Third plan but the work could not be taken up. The University proposed to have additional staff quarters during the Fourth Plan at an estimated cost of Rs. 7,50,000. The Committee would support the proposal to increase residential facilities for teachers and that the University may construct a Teachers' Hostel at an estimated cost of Rs. 3 lakhs to accommodate about 20 teachers and also 5 lecturers houses at a cost of Rs. 1 lakh.

Student Welfare:

The Committee had detailed discussion with the student

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representatives when the Vice-Chancellor was also present.

The Committee was impressed with the simple life of the students and their sense of discipline. This was due to the intimate contact between the students and the teachers.

The students during the course of discussion expressed the following general difficulties:

- (i) Social adjustment among the postgraduate and other students;
- (ii) overcrowding in hostel;
- (iii) lack of proper sanitary arrangements in some hostels;
- (iv) non-availability of postgraduate courses in science subjects.
- (v) shortage of class room accommodation
- (vi) lack of facilities for rest and recreation in the university campus
- (vii) inadequacy of text-books in the library
- (viii) high cost of food;
- (ix) unsatisfactory massing arrangements;
- (x) lack of transport facilities for students going to practice classes in the nearby schools.

The Committee felt that some of these difficulties could overcome with necessary expansion of academic and residential accommodation and the proposed decentralisation of the refectory. The Vice-Chancellor assured the Committee that every effort would be made to remove the legitimate grievances of the students within the resources available. The Committee feels that there is a genuine need for a place for rest and recreation for students on the university campus and recommend that an amount of Rs. 1 lakh may be provided to the University for the establishment of a student home for this purpose.

General:

The Committee also considered the following proposal of the University:

- | | |
|--|------------|
| 1. Sports pavilion | Rs. 50,000 |
| 2. Gymnasium | Rs. 63,300 |
| 3. Record room for administration & Accounts | Rs. 30,000 |
| 4. Nurses for hospital | |

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5. Monotype type-setting and
type casting machinery

Rs. 1,00,000

While assistance for projects like sports pavilion, gymnasium etc. may be asked for from the Government of India, other needs like record room for administration and accounts etc. could be financed out of the normal resources of the University. As regards assistance for monotype type-setting and type-casting machinery, the committee is of the opinion that funds required for this machinery could be arranged from the publishing department of the University, which perhaps is not contributing its entire surplus to the general funds of the University. The Committee, in fact, suggest that some of the work of the publishing department of the University may be given to the University press, which was in a position to look after it and the cost of the mono-type type-setting machinery to be obtained adjusted against it.

The University had also proposed an amount of Rs. 5 lakhs for the development of the campus i.e. roads, drainage etc. The Committee suggested that this may be taken up separately with the U.G.C. which had made a specific allocation for the development of campuses of the central universities.

The Committee approves of the proposal of the University with regard of preservation and treatment of manuscripts and suggests that a grant of Rs. 25,000 may be provided by the Commission for making the building of the Tagore Museum termite roof and purchase of equipment required in that connection. The Committee also recommends a grant of Rs. 30,000 for a micro-film unit to be utilized by all the departments. This unit could be located in the central library.

The Committee also discussed with the Vice-Chancellor the proposal of the University for making the post of research assistant in the Department of Ancient Indian History, against which Shri Asis Sen a physically handicapped scholar was working, a permanent one. The Committee felt that it may not be desirable to create the post on a permanent basis as such a post was not available in any other department of the university. It was,

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however, felt that in the special circumstances of the case, the post may be continued till the end of the Fourth Plan period, or till such time as Shri Asis Sen was in a position to obtain another job.

The Committee also considered the recommendations of the Estimates Committee of Parliament referred to it by U.G.C. and the replies of the University as indicated in Appendix III. The Committee agreed with the views as stated by the University on the recommendations.

Sriniketan:

Some members of the Committee visited some of the institutions at Sriniketan - Cottage industries Training Centre and the Department of Social work of Palli Siksha Sadana. The Committee found that the condition of the craft section of C.I.T.C. was not very encouraging. The craft section had been a production centre for such handicrafts as weaving, leather work, batik, lacquer work, pottery, wood crafts and furniture making. As the development of crafts would re-vitalise the village economy the first need was to strengthen the craft section, which had ceased to be a production centre other than textiles. It is essential also to develop the craft museum which should be housed in a separate building, where the museum craft pieces from Kalabhavan could also be exhibited. A collection of selected crafts work at the reference library would be an added attraction at Sriniketan. There was a craft course in Kalabhavan with expert teachers and there was also need for craft training in Vinay Bhavan. The members felt that it was desirable to pool the resources of these institutions and set up a good centre for craft at Sriniketan. It would also be worth while to invite artists, designers and craft men from other parts of India for a camp workshop of a month or so and give practical demonstration in the field as was being done in certain other universities. This would enable the village craftsmen to develop creative acquaintance with the improvements both in design and techniques which are taking place in other parts of India and

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would go a long way to remove the feeling of isolation and remoteness of Sriniketan. The University may draw up a plan for revitalising the working of the Cottage Industry Training Centre and the question of assistance for the development of the Centre may be considered by the U.G.C. separately.

The department of Social Work of Palli Siksha Sadana during the course of visit of the Committee put up proposals costing Rs.18 lakhs approximately for the Fourth Plan period. These included - opening of a postgraduate course in social work; a vehicle for village field work; a rural museum; Leprosy Clinic; staffquarters Library Books, Furniture for class rooms and hostels etc. The Principal of the College informed the members that their budgetary position was very tight and that they were greatly handicapped in their day to day work because their maintenance expenditure had gone up considerably without any corresponding increase in the grants. The Committee was informed that the Institution had two wings - Social Work and Agriculture. The Commission had decided to provide assistance for the maintenance of the former while the question of assistance for the latter was under consideration of the U.G.C. in consultation with ICAR though certain on account grants have been paid for this. The Committee desired that the quantum of assistance for the maintenance of the Department of Social Work may be finalised soon. The Committee could not examine the development proposals of the Department and desired that these may be examined separately after the question of assistance to the Department has been finalised.

A statement indicating the financial implications of the recommendations of the Visiting Committee along with the commitments already made is attached as appendix IV.

The Committee places on record its thanks to the Vice-Chancellor, members of the teaching staff and other authorities of the University for providing facilities for the examination of the Fourth Plan proposals of the University.

(1) Rabindra Bhavam

1. Enrolment :

2. Teachers :

Professor - 1

(2) Department of Education :

1. Enrolment :

Undergraduate - 17
M.Ed. - 6
B.Ed. - 77
Research - 2

2. Teachers :

Professors - 1
Readers - 2
Lecturers - 8
Asstt. Lects. - 3

3. Results :

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
B.Ed.	98.6%	97.3%	100%	100%	100%
M.Ed.	-	-	80%	100%	100%

(3) Department of Mathematics :

1. Enrolment :

Undergraduate : Subsidiary course - 124
Honours - 21
M.Sc./M.A. (Prev.) - 29
M.Sc./M.A. (Final) - 35
Research - 3

2. Teachers :

Professor - 1
Readers - 2
Lecturers - 6

3. Results :

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
Under-graduate	-	66.7%	100%	100%	100%
Post-graduate	-	-	-	86.4%	90.5%
No. of Research Degrees awarded	-	-	-	-	-

(4) Department of Economics & Politics :

1. Enrolment :

Undergraduate - 40 (Pol. Science)

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-: 2 :-

M. Sc./M.A. (Previous)	-	8
M. Sc./M.A. (Final)	-	8
Research	-	1
Research	-	1

2. Teachers :

Professor	-	1
Readers	-	2
Lecturers	-	7
Teachers with Research qualification	-	1
Teachers guiding research work	-	1

3. Results :

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
U.C.	77.8%	37.5%	90.9%	71.4%	60%
P.G.	87.5%	42.9%	50%	58.3%	51.1%
No: of Research degrees awarded.	-	-	-	-	1

(5) Department of Bengali :

1. Enrolment

Subsidiary	-	7	General	-	118	Certificate	-	3
U. G. (Hons)	-	19						
M. Sc./M.A. (Prev.)	-	19						
M. Sc./M.A. (Final)	-	17						
Research	-	5						

2. Teachers :

Professor	-	1
Readers	-	3
Lecturers	-	10

No: of teachers with Research qualification - 8
 No: of teachers guiding research work - 2

3. Results :

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
U. G.					
B. A. (Hons)	77.7%	36.7%	83.3%	85.7%	75%
Dip. language	-	100%	-	100%	100%
Certificate	100%	-	100%	100%	100%
M. A.	85.7%	87.5%	83.3%	100%	100%
No: of research degrees awarded	1	-	1	2	1

(6) Department of English & other Modern European Language

1. Enrolment :

U. G. 'General English - 136, Hon. 23.

(52)

- 3 :-

M.A. (Prev.) - 7
 M.A. (Final) - 5
 Research - 1

2. Teachers

Professor - 1
 Reader - 3
 Lecturer - 4

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
B.A. (Hons)	100%	100%	100%	100%	100%
Diploma	100%	50%	100%	-	50%
Certificate	100%	44.4%	50%	53.3%	75.5%
M.A.	100%	50%	75%	33.3%	40%

(7) Department of Hindi

1. Enrolment

Undergraduate Hons - 3 + 5
 General Hindi - 8
 Subsidiary - 1
 M.A. (Prev.) - 1
 Certificate course
 (1st. & 2nd year) - 12
 Foreign Casual students - 2
 Research - 7

2. Teachers

Professor - 1
 Readers - 3
 Lecturer - 2
 No: of teachers with Research
 Qualification - 5
 No: of teachers guiding
 research work - 3

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
U.G. B.A. (Hons)	100%	100%	100%	-	100%
Dip. Language	100%	-	-	66.7%	100%
Cert. Language	100%	100%	100%	25%	100%
Postgraduate	100%	100%	100%	100%	100%
No: of research degrees awarded		1		1	1

(8) Department of History

1. Enrolment

Undergraduate subsidiary - 9, Hon = 16
 M.A. (Prev.) - 12
 M.Sc./M.A. (Final) - 12
 Research - 2

2. Teachers

Professor - 1
 Reader - 1
 Lecturers - 6

60

-: 4 :-

No: of teachers with Research qualification - 3
No: of Teachers guiding Research work - 2

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
U.G.	80%	66.7%	66.7%	37.5%	85.7%
P.G.	-	100%	25%	91.6%	88.9%

(9) Ancient Indian History :

1. Enrolment

Undergraduate - 1
M.Sc./M.A. (Prev.) - 2
M.Sc./M.A. (Final) - 1

2. Teachers :

Professor - 1
Lecturers - 4

No: of teachers with research qualifications - 3

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
U.G.			66.7%		
P.G.	87.5%	62.5%	77.8%	100%	100%
No: of Research degrees awarded	1		1	-	1

(10) Department of Sanskrit, Pali and Prakrit

1. Enrolment :

U.G. Non - 14, Subsidiary - 6, Certi. - 1
U.G. Hons - 14
M.Sc./M.A. (Prev) 3
M.Sc./M.A. (Final) 5
Research - 7

2. Teachers :

Professor - 1
Readers - 2
Lecturers - 6
Asst. Lecturers and Instructors - 5

No: of teachers with research qualifications - 5
No: of teachers guiding research work - 2

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
U.G.B.A. (Hons)	75%		100%	100%	100%
Postgraduate	50%	100%	66.7%	50%	71.4%
No: of Research degrees awarded					

(11) Department of Oriya Studies :

1. Enrolment

Undergraduate (certificate) - 1

602

-: 5 :-

M.A. (Final) - 6
 Research - 2

2. Teachers :
 Readers - 1
 Lecturers - 3
 No: of teachers with research qualifications - 1
 No: of teachers guiding research work - 3

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate	100%	-	7	100%	100%
Postgraduate	100%	66.7%	75%	100%	100%

(12) Department of Chemistry

1. Enrolment
 Undergraduate Hons = 78, Subsidiary = 109

2. Teachers
 Professor - 1
 Reader (Final) - 1
 Lecturers - 5
 No: of teachers with research qualification - 4
 No: of teachers guiding research work - 1

3. Results : (pass percentage)
 1961-62 1962-63 1963-64 1964-65 1965-66
 Undergraduate - - - - 100%

(13) Department of Physics :

1. Enrolment :
 Undergraduate Hon. 44, Subsidiary = 88

2. Teachers :
 Reader - 1
 Lecturers - 4
 No: of teachers with research qualifications - 2
 No: of teachers guiding research work - 2

3. Results :
 1961-62 1962-63 1963-64 1964-65 1965-66
 Undergraduate - - - - 50%

(14) Department of Botany :

1. Enrolment :
 Undergraduate subsidiary = 45, Hons = 23

2. Teachers :
 1961-62 1962-63 1963-64 1964-65 1965-66
 Reader - 1
 Lecturers - 3
 100%

3. Results :
 Undergraduate - (1st Hons. Examination due in 1968)

(15) Department of Zoology :

1. Enrolment :
 Undergraduate Hons - 9
 Subsidiary - 14
 Research - 2

2. Teachers :

	Readers	-	1
	Lecturers	-	2
	Asst. Lecturer-1		
No: of teachers with research qualifications		-	4
No: of teachers guiding research work		-	1

(16) Department of Social Work :

1. Enrolment -
2. Teachers :

	Readers	-	1
	Lecturers	-	9

3. Results : (Pass percentage)

	1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate	-	-	-	-	92.3%

(17) Department of Agricultural Science :

1. Enrolment :

Undergraduate (B. Sc. Agri.) - 86

2. Teachers :

	Professor	-	1
	Reader	-	1
	Lecturers	-	12

No: of teachers with research qualifications - 2

No: of teachers guiding research work - 1

(18) Department of Chinese Studies :

1. Enrolment :

	Undergraduate	-	5
	Certificate course	-	2
	Postgraduate Diploma	-	1

2. Teachers

	Professor	-	1
	Reader	-	1
	Lecturers	-	3

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate					
B.A. (Hons)	-	-	-	-	100%
Diploma	100%	-	100%	100%	-
Certificate	100%	50%	100%	100%	100%
No: of research degrees awarded	-	-	1	1	-

(19) Department of Fine Arts & Crafts (Kala Bhavan)

1. Enrolment :

Undergraduate - 150

2. Teachers :

	Professors	-	1
	Readers	-	3
	Lecturers	-	7
	Asstt. Lecturers	-	6
	Instructor	-	1

3. Results :

	1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate					
Diploma in Fine Arts/Crafts	85%	100%	100%	68.7%	100%

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(20) College of Music & Dance :

1. Enrolment

Undergraduate	-	108
Graduate	-	20
Patha Bhavana & Higher School Certificate	-	551
B.Ed.	-	4
Foreign Casual	-	1

2. Teachers :

Professors	-	2
Readers	-	5
Lecturers	-	4

No: of teachers with research qualifications: 6
 No: of teachers guiding research work - 2

3. Results :

1961-62	1962-63	1963-64	1964-65	1965-66
100%	100%	100%	88.8%	100%

(21) Department of Geography

1. Enrolment : Undergraduate (Subsidiary) - 3

2. Teachers : Lecturer - 1

3. Result : -

(22) Department of Indo-Tibetian Studies :

1. Enrolment :

Undergraduate	-	No enrolment in 67-68
Research students registered for Ph.D. degree.	-	
Ph.D. course	-	1
Research fellow	-	1
Research Scholar	-	2

2. Teachers :

Readers	-	2
Lecturer	-	1

No: of teachers with research qualifications - Nil
 No: of teachers guiding research work- 2

3. Results :

1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate (Certificate)	100%	100%	-	100%
Diploma	100%	-	100%	-

(23) Department of Arabic, Persian & Islamic Studies

1. Enrolment - There is no teachers in the Department
 There is only one research scholar.

2. Teachers :

Reader	-	1
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No: of teachers with research qualifications - 1
 No: of teachers guiding research work - 1

3. Results - Nil

(24) Department of Rural Reconstruction-Sriniketan

1. Enrolment :

Undergraduate wood work	-	13
Weaving	-	4

2. Teachers :

Professor	-	-
Reader	-	-
Lecturer	-	3

3. Results (Pass percentage)

	1961-62	1962-63	1963-64	1964-65	1965-66
Undergraduate	80.80%	96.1%	98.81%	96.58%	92.38%
Dip. Woodwork	100%	100%	100%	100%	83.3%
Dip. Weaving	100%	100%	100%	100%	100%

Appendix II

Statement indicating the financial implications of development schemes of Visva-Bharati continuing in the Fourth Plan (as in September '67)

Scheme	Total approved cost	U.G.C. share	Amount paid till 31.3.66	Amount paid after 31.3.66	Balance to be paid	Total to be charged to Fourth Plan	Remarks
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
I. Science							
<u>Non-recurring</u>							
Vijnan Bhavan (Physics/Chemistry/Maths Block)	10,14,523	10,14,523	-	4,45,000	5,69,523	10,14,523	
School Labs. (Physics/Chemistry/Biology)	1,50,000	1,50,000	1,05,000	45,000	-	45,000	
Geography/Psychology Labs.	1,00,646	1,00,646	-	-	1,00,646	1,00,646	
Total:	12,65,169	12,65,169	1,05,000	4,90,000	6,70,169	11,60,169	(A)
<u>Recurring</u>							
Staff	5,90,000	5,90,000	1,15,000	4,45,000	30,000	4,75,000	(B)
II. Humanities:							
<u>Non-Recurring:</u>							
Construction of studio for kala Bhavana.	40,000	40,000		19,000	21,000	40,000	(C)
<u>Recurring</u>							
Staff	11,10,000	11,10,000	3,60,000	4,50,000	3,00,000	7,50,000	
Scholarships (2 Tibetan Scholars)	15,546	15,546	9,598	2,948	3,000	5,948	
	11,25,546	11,25,546	3,69,598	4,52,948	3,03,000	7,55,948	(D)
III. General:							
<u>Non-Recurring</u>							
Vidya Bhavana Hostel	7,21,904	7,21,904	7,00,000	21,904	-	21,904	
Siksha Bhavana Men's Hostel	5,20,000	5,20,000	-	50,000	4,70,000	5,20,000	
International House...	-	-	-	-	-	-	

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	5,00,000	3,00,000	-	40,000	2,00,000	3,00,000
Women's Hostel at Viney Bhavana	30,094	30,094	10,000	5,000	15,094	20,094
Purchase of built up property	1,60,753	1,60,753	-	1,57,000	3,753	1,60,753
Conversion of Vichitra Open Auditorium into closed type examination-cum-auditorium Hall	1,16,000	1,16,000	5,000	93,000	18,000	1,11,000
Establishment of a Cooperative Canteen	15,646	15,646	-	15,646	-	15,646
Construction of boundary wall around grave yard	30,000	30,000	-	15,000	15,000	30,000
Various Buildings, equipment etc. for the Non-University Departments at Sriniketan	5,34,000	5,34,000	-	2,99,993	2,34,207	5,34,200
Total:	27,28,397	24,28,397	7,15,000	6,97,543	10,16,054	17,13,597 (C)
Recurring						
Staff for Non-University Departments at Sriniketan	-	-	-	50,000	9,804	59,804
Expenditure on account of certain academic & Non-academic posts	-	-	-	1,00,000	70,000	1,70,000
Total:	-	-	-	1,50,000	79,804	2,29,804 (E)
Grand Total	57,49,112	54,49,112	13,04,598	22,54,491	21,20,017	43,74,518*

* Excludes the amount required for recurring and non-recurring commitments of Falli Shiksha Sadana which has two wings - Social Sciences & Agriculture. The question of assistance for Agriculture Wing is under Correspondence with I.C.A.R. An amount of Rs. 6,63,000 (NR 80,000 + R 5,83,000) has been paid for the Institution by U.G.C. after 31.3.1966 which will be a charge on IV Plan allocation. A further amount of Rs. 12,00,000 (NR Rs. 2,50,000 + R Rs. 9,50,000) is likely to be paid to the Social Sciences Wing of Falli Shiksha Sadana.)

Recommendations of the Estimates Committee
(Third Lok Sabha) on Visva-Bharati.

Para - 41

Recommendation :

Considering the Gurdev Rabindranath Tagore took special interest in folk religion, the University may consider the feasibility of undertaking studies in folk religion (Lokayat Dharma), mediaeval vaishnava reformers, Indian Philosophy, Comparative Religion etc.

In view of the fact that there are different schools of Indian Philosophy, the Committee suggest that facilities may be created in certain selected Universities for specialised studies and research of different Indian Philosophies. The Committee feel that Jain Philosophy has not received due attention in any University for special study. They also feel that either the Banaras Hindu University or the Visva-Bharati University each having a Centre of Advanced Study in Philosophy may be eminently suited for studies in Jain Philosophy.

Reply of the University :

The University has already started B.A. Honours Course in Comparative Religion where there is provision for the study of the main Indian Religions along with tribal religions of India. There are one Professor and two Lecturers for the course. The Professor, in addition to his usual class lectures, has to address the public on different religions.

As regards Indian Philosophy, this comprises about half the course in Philosophy at the B.A. and M.A. stages. The Advanced Centre at Visva-Bharati is meant mainly for metaphysics and actually as much emphasis is laid on Indian Philosophy as on Western. Exclusive emphasis is laid on Indian Philosophy in Advanced Centres at Banaras and Madras.

As for special study of Jainism, there is at present no provision for it at Visva-Bharati. However, a special full paper on Jainism is all that is possible at the M.A. stage. This again will involve a stretching of our resources.

Para - 58

Recommendation :

The Committee agree with the views of the Visting Committee appointed by the University Grants Commission that Cheena-Bhavana has not been very productive for a long time. They suggest that the Department may undertake intensive study of the history and culture of not only China, but also of Japan, Tibet, Korea and Mongolia, etc. with particular reference to the influence of Indian Culture on those countries and vice versa and also with the development of Mahayana Philosophy.

The Committee would suggest that the present political tension with China should not in any way affect studies and research in our cultural relations with what may be called the 'Mongolian World' as India had very intimate cultural contacts with those people

(Contd..../2)

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Reply of the University :

Visva-Bharati Cheena-Bhavana offers language courses in Chinese leading to certificate and Diploma in that language. Chinese is taught up to the Honours level. The Honours course in Chinese contains, besides language and literature, an outline of the cultural history of China, Research on Buddhism in China and on the results of Sino-Indian contact through the ages are being conducted in the Cheena Bhavana. The Visva-Bharati Department of Ind-Tibetan Studies similarly promotes study and research in the Cultural relations between India and Tibet. Japanese is being taught only as a language.

The further expansion of these departments and the opening of new departments for the study of Korean and Mongolian languages and culture will depend on increased financial assistance from the U.C.C.

The recommendations of the Committee will be kept in view and implemented when budgetary position will permit the University to adopt new plans of development.

Para - 37

Recommendation :

The Committee hopes that staff quarters will be provided to all employees of Visva-Bharati University who are really in need of such quarters by the end of the Fourth Plan.

Reply of the University :

The University is making all possible efforts to provide its staff with quarters within the Fourth plan period. Proposals for construction of staff quarters costing Rs. 13,50,000/- have been submitted to the University Grants Commission. This would be considered by the U.C.C. along with the Fourth Plan proposals of the University.

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Appendix IV

Financial implications of the Recommendations of the Visiting Committee
including commitments already made

S.No.	Item	Recurring	Non-Recurring	Total
		(Rs. in lakhs)		
1.	Schemes continuing from earlier plans (Details in Appendix II)	29.94	32.44	62.38
	<u>Total:</u>	<u>29.94</u>	<u>32.44</u>	<u>62.38</u>
2.	Schemes approved during IV Plan:			
	i. Basic grant for equipment	-	4.20	4.20
	ii. Basic grant for books	-	2.00	2.00
	iii. Library Building	-	10.03	10.03
	iv. Publication of Research work	-	0.20	0.20
	v. Staff for Science Departments (1 Professor for Chemistry; 1 Lecturer each for Botany & Zoology)	1.36	-	1.36
	<u>Total:</u>	<u>1.36</u>	<u>16.43</u>	<u>17.79</u>
3.	Recommendations of Visiting Committee (Details in Annexure)			
	i. Humanities Departments	0.24	6.35	6.59
	ii. Science Departments	1.74	8.85	10.59
	iii. Fine Arts	1.20	0.60	1.80
	iv. Vinaya Bhavan	-	1.22	1.22
	v. General	-	17.05	17.05
	<u>Total:</u>	<u>3.18</u>	<u>34.07</u>	<u>37.25</u>
	<u>Grand Total:</u>	<u>34.48</u>	<u>82.94</u>	<u>117.42</u>

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Annexure to Appendix IV

Financial Implication of recommendations
of IV Plan Visiting Committee.

Department	Item	Amount	
		Recurring	Non-recurring
(Rs. in lakhs)			
A. Humanities			
i) History	One Lecturer	0.24	-
	Books	-	0.15
ii) Ancient Indian History	Books	-	0.15
iii) English	Books	-	0.15
iv) Chinese Studies	Books	-	0.15
v) Economics & Political Science	Books	-	0.20
	Equipment	-	0.05
vi) Bengali	Books	-	0.10
vii) Hindi	Books	-	0.10
viii) Islamic Studies	Books	-	0.10
ix) Sanskrit	Books	-	0.10
x) Geography	Books	-	0.10
xi) Total (A)	Teaching Block	-	5.00
		<u>0.24</u>	<u>6.35</u>
B. Science :			
1) Physics	Two lecturers	0.48	-
	Books	-	0.25
	Lab. fittings & furniture	-	0.50
	Equipment	-	0.50
ii) Chemistry	Two lecturers	0.48	-
	Books	-	0.25
	Lab. fittings & furniture	-	0.50
	Equipment	-	0.50
iii) Botany & Zoology	Lab. Bldg.	-	4.50
	One Lecturer	0.24	-
	One H.A.	0.15	-
	One M.A.	0.15	-
	Books	-	0.40
	Equipment	-	0.40
	Botanical Garden	-	0.15
	Animal House	-	0.15
iv) Mathematics	Books	-	0.25
v) Gas Plant		-	0.25

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-: 2 :-

vi) Workshop	Shed & Equipment	-	0.25
	Technical staff	0.24	-
	<u>Total (B)</u>	<u>1.74</u>	<u>8.85</u>
<u>C. Fine Arts:</u>			
1) Kala Bhavan	Two Professors	0.96	-
	One Lecturer	0.24	-
	Books	-	0.30
	Equipment	-	0.20
ii) Sangeet Bhavan	Books	-	0.05
	Equipment	-	0.05
	<u>Total (C)</u>	<u>1.20</u>	<u>0.60</u>
<u>D. Vinaya Bhavan</u>			
	Laboratory	-	1.07
	Books	-	0.10
	Equipment	-	0.05
	<u>Total (D)</u>	-	<u>1.22</u>
<u>E. General</u>			
	i. Two students' hostels	-	10.00
	ii. Improvement in kitchen and dining arrangements	-	1.50
	iii. One teachers' hostel	-	3.00
	iv. Five Lecturers' Quarters	-	1.00
	v. Student Home	-	1.00
	vi. Preservation of Manuscripts	-	0.25
	vii. Micro film unit	-	0.30
	<u>Total (E)</u>	-	<u>17.05</u>
	<u>Grand Total</u>	<u>3.18</u>	<u>34.07</u>

English

1

Colleges of
Ved & Arts

330

220

Total

8

2

104

52

480

320

36

36

Total U.G.C. 408

1. U.G.C. Share for Continuing III
Plan Schemes

113

2. Schemes already approved during IV Plan

(a) Basic Grant for equipment
(Department-wise)

(20 each for Physics, chemistry, botany and zoology) Total

80

(b) Staff (Department & Categorywise)

601

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GURUKUL KANGRI VISV VIKYALAYA

II - General Schemes

(Rupees in thousands)

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan.		New Schemes		Total U.G.C. Share	REMARKS
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
1. Central Library							
(a) Building	-	-	-	-	-	-	-
(b) Staff	-	-	-	6	3	3	-
(c) Books	-	75	75	100	100	175	-
(d) Equipment & Furniture	-	-	-	30	20	20	-
2. Students' Hostel	-	-	-	250	125	125	-
3. Students' Home/Non-Resident Students Centre.	-	-	-	35	35	35	-
4. Teachers' Hostel	-	-	-	-	-	-	-
5. Health Centre	-	-	-	-	-	-	-
6. Staff Quarters including Vice-Chancellor's Residence.	-	-	-	250	125	125	-
7. Studentship	-	-	-	-	-	-	-
8. Other Printing Press and Publication	16	5	5	-	-	21	-
Total	16	80	80	671	408	504	-

GURUKUL KANGRI VISHVA VIDYALAYA

III - Summary of Allocations (UGC Share) to the University
for the Fourth Plan Period.

(Rupees in thousands)

University Institution	Committed expenditure on develop- ment.	Cost of schemes already approved in IV Plan.	New Schemes								General Students amenities	Staff Res.	Misc.	Total (1+2+ 14)	Grand Total (2+ 3 +15)
			Posts		Library	Equipment		Deptt. Bldgs.							
1.	2.	3.	'Sc.	'H'	Bldg.	Books	Sc.	'H'	'Sc.	'H'	12.	13.	14.	15.	16.
Gurukul Kangri Vishva vidyalaya.	129	160	-	52	-	100	-	-	-	320	160	125	59	816	1105

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CONFIDENTIAL

Report of the Visiting Committee which examined the Fourth
Plan Development Schemes of the Gurukula Kangri Vishvavidyalaya

The University Grants Commission appointed a Visiting Committee to examine the Fourth Plan development schemes of the Gurukula Kangri Vishvavidyalaya, Haridwar. The Committee consisted of the following:

1. Prof. H.C. Ganguli,
Dean, Faculty of Arts & Head
of the Department of Psychology,
Delhi University.
2. Prof. Surya Kant,
Head of the Department of Sanskrit,
Kurukshetra University.
3. Prof. T.R.V. Murti,
Former Director,
Centre of Advanced Study in Philosophy,
Banaras Hindu University.
4. Shri. Shanti Narain,
Principal,
Hans Raj College,
Delhi.
5. Prof. R.C. Paul,
Head of the Department of Chemistry,
Panjab University.

Officers of the Commission

1. Dr. R.C. Gupta,
Development Officer.
2. Shri Y.D. Sharma,
Education Officer.

2. The Committee visited the Vishvavidyalaya on the 28th of October, 1967, and discussed the Fourth Plan development proposals with the acting Vice-Chancellor, the Heads of the various departments and other authorities of the Vishvavidyalaya. The committee had discussions with the student representatives on matters concerning their welfare and development of a corporate life within the campus. The committee visited the Colleges of Ved, Arts and Science and had detailed discussions with the teachers. The committee also visited the Vishvavidyalaya Library.

3. With a view to 'turning out good citizens of high character by imparting education in Ancient Vedic and Sanskrit Literature along with modern scientific subjects, the Gurukula Kangri was founded in 1900 by Swami Shraddhanand Ji, as a residential institution where the teachers and students live within the same campus as a family or kula, under the guidance of the Guru, i.e. the Gurukula. The institution became a Vishvavidyalaya in 1921. The Gurukul Kangri Vishvavidyalaya was recognised as an institution deemed to be a university under Section 3 of the UGC Act, 1956, by the Government of India in June, 1962, for B.A., B.Sc. and M.A. degrees. The Gurukula Science College is affiliated to the Meerut University for B.Sc. courses and is outside the academic purview of the Vishvavidyalaya. Hence this report deals with the requirements of the Vishvavidyalaya for higher education in humanities and social sciences only.

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4. Some basic facts and figures about the Garukula Kangri Vishva-vidyalaya are given below:

(i) The Vishvavidyalaya has adopted Hindi as the medium of instruction up to the university standard. It does not charge any tuition fee for studies up to the Alankar degree. For admission to the Vishva-vidyalaya a basic knowledge of Sanskrit is compulsory.

(ii) The eight departments of the Vishvavidyalaya viz., Ved, Sanskrit, Philosophy, English, Hindi, Ancient Indian History and Culture, Psychology and Mathematics, prepare student for the post-graduate degree of Vachaspati (M.A.), as also for the bachelor degree of Vidyalankar and Vedalankar (with emphasis on Vedic literature)

(iii) The total student enrolment and the strength of the teaching staff in the Vishvavidyalaya since 1961-62 is shown below:

	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
Enrolment							
B.A. Course	9	10	11	12	9	14	17
M.A. Course	-	-	52	68	72	79	111
Total	9	10	63	80	81	93	128
Teachers	8	8	15	21	20	22	23

This shows that at present five out of every six students at the university level are enrolled for a postgraduate degree in 1967-68. The teacher-pupil ratio is 1: 5.6. The distribution of the postgraduate enrolment since 1964-65 and of the teaching staff in 1967-68 according to subjects is given in Appendix I. Of the 23 teachers, only four hold research degrees.

(iv) The pass-percentage at the Alankar (B.A.) degree examination has been uniformly 100% since 1961-62, the maximum number of students appearing in this examination was seven in 1964-65. The M.A. examination results since 1964-65 are as under:

Subject (M.A. Examination)	1964-65		1965-66		1966-67	
	No. appeared	Pass percentage	No. appeared	Pass percentage	No. appeared	Pass Percentage
1. Ancient Indian History and Culture,	6	100%	8	100%	9	89%
2. English	7	100%	8	100%	3	100%
3. Hindi	6	83%	6	100%	6	100%
4. Mathematics	3	100%	4	50%	4	100%
5. Psychology	2	100%	4	100%	4	100%
6. Sanskrit	6	100%	2	100%	5	100%
7. Vedic Literature	-	-	-	-	2	100%
Total	30	96%	32	94%	33	97%

The distribution of the M.A. examination results during 1964-67 according to the divisions (I, II and III) is shown in appendix II.

(v) Of the 23 teachers, 20 have been provided with accommodation in the campus. The number of students residing in campus was only 11 (all postgraduate) out of the total enrolment of 128. The remaining students are either staying in rented accommodation or in the Vanaprastha Ashram in the neighbourhood, free of charge.

(vi) The staff of the Vishvavidyalaya have published a number of research papers and books. Its Vedic Research Department, established in 1942, has published 27 volumes on various topics.

PART II

Meeting with the Students

5. The students, whom the committee met, stressed the need for essential amenities in the campus such as additional hostel accommodation the non-resident students centre, common-room etc. It was stated that reference and textbook section of the library should be enriched. The Vishvavidyalaya Sports Council should be organised. The students urged that more postgraduate and research scholarships should be allocated to the Vishvavidyalaya. It was also stated that the degrees of the Vishvavidyalaya should have wider recognition by the universities and the employment organisations.

PART III

Utilisation of Third Plan Grants

6. The Vishvavidyalaya is running eight postgraduate departments in the undermentioned subjects:

College of Ved

1. Department of Ved
2. Department of Sanskrit
3. Department of Philosophy

College of Arts

1. Department of Hindi
2. Department of Ancient Indian History and Culture
3. Department of English
4. Department of Psychology
5. Department of Mathematics

In the Third Plan, the Commission agreed to the creation of the posts of eight readers and eight lecturers in the eight departments of humanities and social sciences, in the Colleges of Ved and Arts. The Vishvavidyalaya, however, appointed seven heads of departments in the scale of Rs. 300-20-550-EB-25-650-EB-30-800 and nine lecturers in the scale of Rs. 250-10-400-EB-20-500. In addition, the Commission approved development scheme involving a non-recurring grant of Rs. 9.42 lakhs. The Vishvavidyalaya could utilise grants upto Rs. 4.60 lakhs only during the Plan (appendix III). An amount of Rs. 1,28,667 is due as a spill-over to be paid as first charge on the funds to be made available during the Fourth Plan. The main reasons for the shortfall in the utilisation of the UGC grants was stated to be the non-availability of the matching contribution required. The Vishvavidyalaya has been assured by the Government of India in May 1967 that the Ministry of Education would

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provide the requisite matching share for the schemes approved by the UGC.

7. Before the visit of this committee, the Commission had already committed assistance of Rs.1,60,000 towards purchase of equipment, books and journals as basic grant (appendix IV). This does not include unassigned grants made to the Vishvavidyalaya for the exchange of teachers, extension work by teachers, travel grants to teachers for attending conferences and visiting centres of research etc., etc. The total amount committed so far including the spill-over from the Third Plan is Rs.2,88,667.

PART IV

Recommendations of the Visiting Committee

8. For the Fourth Plan period, the Vishvavidyalaya was requested to send proposals within a ceiling of Rs.10 lakhs for first priority programmes and Rs.10 lakhs for second priority programmes. The Vishvavidyalaya sent proposals involving a total expenditure of Rs.33.83 lakhs distributed as follows: humanities and social sciences Rs.12.35 lakhs, science subjects Rs.12.18 lakhs and general schemes Rs.14.30 lakhs. After a detailed examination of the proposals and discussions with the Vishvavidyalaya authorities the following observations are made:

(i) The teaching load per teacher in different departments varies from 18 to 26 periods per week for degree and postgraduate classes. Except in the department of Mathematics, the staff also meets intermediate classes which are under the jurisdiction of the U.P. Board of High School and Intermediate Education. It was also learnt that generally six periods of lecture work were devoted to each paper at M.A. level. The committee felt that this was rather on the high side since this left little time for library reading and self-study by students. The committee feels that a lecturer should generally have 19 periods per week. Lecturer work should therefore be reduced to make room for tutorials and seminars. With a view to reducing the pressure of work and organising the teaching programme more effectively, the committee recommends that one post of lecturer may be given to each of the eight departments.

(ii) The department of Ancient Indian History and Culture has a museum and a library for the guidance of research scholars and possesses some rare manuscripts, coins, paintings, sculptures etc. During the Third Plan, the Commission sanctioned a grant of Rs.1 lakh (50% of the total expenditure of Rs.2 lakhs) for additions to the museum, but the Vishvavidyalaya could utilise a grant of Rs.30,000 only during the Plan period. The unspent balance grant of Rs.70,000 has lapsed, but this has already been provided as a fresh grant for the museum for the Fourth Plan period. The committee recommends that one post of assistant curator in the scale of Rs.250-400 may also be sanctioned during Fourth Plan period for this department.

(iii) The committee visited the psychology laboratory and found it inadequate for postgraduate studies and research. The provision of Rs.1,50,000 made, during the Third Plan, for extension of psychological laboratory (inclusive of services and furniture) was not utilised by the Vishvavidyalaya. Of the expenditure of Rs.25,000 sanctioned for equipping this laboratory, a sum of Rs.10,400 only was spent during the Third Plan. The Committee recommends the following:

Extension of Psychological Laboratory (inclusive of services, furniture and equipment).	Rs. 1,50,000
One laboratory attendant (for 3 years)	Rs. 5,000
Total	Rs. 1,55,000

(iv) All the eight departments in the Colleges of Ved and Arts, put forth their claim for starting research (Ph.D.) courses during the Current Plan. The heads of the departments and one lecturer each in the departments of Hindi and Sanskrit have research qualifications. Keeping in view the research qualifications and experience of the members of the teaching staff, the committee feels to begin with only two departments, viz., Hindi and Sanskrit, may undertake this work. For this purpose two research scholarships each year may be provided, one each of the value of Rs. 250/- p.m. for research in Hindi and Sanskrit (including Vedic literature). A provision of Rs. 36,000 is recommended for this.

(v) The Third Plan Visiting Committee recommended a new building for the colleges of Ved and Arts at an estimated cost of Rs. 2,25,000 providing for 15,000 sq.ft. of built accommodation (inclusive of services). The Vishvavidyalaya could not undertake the project during the Third Plan. The need for additional accommodation persists. The committee recommends a provision of Rs. 3,00,000 for additional accommodation including a staff room for teachers. An additional allocation for Rs. 30,000 may be made for furniture.

(vi) The Vishvavidyalaya Library, with 62,374 volumes in stock has a reading and stacking accommodation of 8150 sq.ft., providing for 40 reading seats. During Third Plan, 11,361 volumes were added to the library. The library contains about 5,000 volumes only in science subjects. The committee feels that the library has sufficient room for expansion during the current plan. Urgent steps should be taken to make the library functionally efficient. The post of the librarian vacant since June 1967, should be filled urgently. In addition, an assistant librarian in the scale (Rs. 150-200) may be appointed. An additional grant of Rs. 1,00,000 for books and journals and Rs. 30,000 for equipment and furniture may be provided. The textbook section of library may be enriched.

(vii) The Gurukula Science College, started in 1958, was affiliated to the Agra University for B.Sc. degree. This is now affiliated to the Meerut University. On the recommendation of the Third Plan visiting committee, the Commission sanctioned grants amounting to Rs. 4.13 lakhs for building, equipment, books and journals for the various science departments of the Vishvavidyalaya. The Vishvavidyalaya utilised Rs. 2.37 lakhs only during the Plan Period. This grant was utilised for the Science College. A sum of Rs. 43,000 only is due to the Vishvavidyalaya as a spill-over of the Third Plan (appendix III). During the Fourth Plan also, the Commission has sanctioned grants amounting to Rs. 1,02,500 to the Vishvavidyalaya as basic grant for various science departments (i.e. Rs. 20,000 equipment grant for each of the departments of Physics, Chemistry, Botany and Zoology, and Rs. 22,500 for books and journals). Since the Vishvavidyalaya has no science department of its own and the grants are being utilised for the benefit of the Science College, which is actually affiliated to the Meerut University, though under the administrative control of the Vishvavidyalaya the position may be separately examined by the Commission.

(viii) During the Third Plan, the Visiting Committee recommended a provision of Rs. 2.50 lakhs for the construction of 10 staff quarters. The Vishvavidyalaya did not undertake the project during the Third Plan. As the need for staff quarters is genuine and urgent, it recommends that a provision of Rs. 2,50,000 for this purpose may be made on the usual sharing basis.

(ix) The provision made for the construction of a hostel for 100 students during the Third Plan was not utilised by the Vishvavidyalaya since the matching share was not available. As the character of the Vishvavidyalaya is essentially residential, the Committee recommends a provision of Rs. 2,50,000 for a hostel for 50 students with necessary services and amenities.

(x) In the course of discussions with the students representatives, the need for providing a common room-cum-non-resident students centre was stressed. The Committee recommends a grant of Rs. 35,000 for the purpose.

9. The committee would like to make the following additional observations for particular consideration of the authorities of the Vishvavidyalaya:

(i) The Gurukula Kangri Vishvavidyalaya runs postgraduate courses through Hindi medium. Special efforts have to be made to provide the necessary reading material for students in Hindi. Adequate knowledge of English would also be essential to enable students to consult books and articles in English.

(ii) It would be an advantage if the present staff is able to concentrate on undergraduate and postgraduate teaching without giving a part of their time to intermediate section. There should be a greater emphasis on tutorials and seminars.

(iii) In view of the comparatively low enrolment, per capita cost is high, while it would be necessary for the Vishvavidyalaya to take constructive steps to increase the enrolment in the degree and postgraduate classes run by it commensurate with the facilities available and to be provided, continuing efforts should also be made to improve academic programmes and to encourage the pursuit of excellence.

(iv) The Vishvavidyalaya sports council may be organised. Better facilities for sports, viz., provision of play grounds, participation in tournaments etc., may be provided. Provision should also be made for extra-curricular activities. One of the senior teachers may be designated as dean of student welfare.

(v) Only four members of the staff out of a strength of 23, have research qualifications. Greater stress should be laid on research and facilities should be provided to teachers for this purpose. Teachers should be encouraged to participate in academic conferences, summer schools/institutes etc., and professors of repute invited to the Vishvavidyalaya for short periods.

(vi) The salaries of the teaching staff are low and are at par with those prevailing in the affiliated colleges. This has hampered the Vishvavidyalaya in recruiting and retaining adequately qualified staff. The committee recommends that the possibility of revising the pay scales of teachers subject to the necessary academic safeguards and screening may be explored.

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10. Financial implications of the recommendations of the Visiting Committee are summarised below

	Recurring Rs.	Non-recurring Rs.	Total Rs.
Humanities and Social Sciences.	88,000	3,20,000	4,08,000
Library	3,000	1,20,000	1,23,000
General Sciences	-	2,85,000	2,85,000
Total	91,000	7,25,000	8,16,000
Add:			
Spill over from Third Plan and Basic grants sanctioned during Fourth Plan.	-	2,88,000	2,88,000
Grand Total	91,000	10,13,000	11,04,000

Further details are given in appendix V.

11. The Committee places on record its thanks to the Acting Vice-Chancellor, the Registrar, the Administrator, the members of the teaching staff and student representatives for their cooperation and assistance in the assessment of the development proposals of the Gurukula Kangri Vishwavidyalaya for the Fourth Plan.

GURUKULA KANGRI VISHVAVIDYALAYA

Distribution of Postgraduate Enrolment and
Teaching Staff by Subjects.

Subject of postgraduate study.	Enrolment in				No. of teachers 1967-68
	1964-65	1965-66	1966-67	1967-68	
1. Ancient Indian History and Culture.	17	16	19	27	3
2. English	15	16	16	21	3
3. Hindi	12	13	11	10	3
4. Mathematics	10	8	12	21	2
5. Vedic Literature	-	2	4	4	3
6. Psychology	6	10	6	15	3
7. Philosophy	-	-	3	6	3
8. Sanskrit	8	7	8	7	3
Total	68	72	79	111	23

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GURUKULA KANGRI VISHVAVIDYALAYA

M.A. Examination Results : Break-up by Divisions

Examination	1964-65			1965-66			1966-67					
	No. passed	Division I	Division II	Division III	No. passed	Division I	Division II	Division III	No. passed	Division I	Division II	Division III
1. Ancient Indian History & Culture.	6	-	5	1	8	2	5	1	8	-	7	1
2. English	7	1	3	3	8	-	-	8	3	-	2	1
3. Hindi	5	2	3	-	6	1	4	1	6	2	4	-
4. Mathematics	3	1	2	-	2	1	1	-	4	2	1	1
5. Psychology	2	2	-	-	4	-	4	-	4	-	1	3
6. Sanskrit	6	2	4	-	2	2	-	-	5	3	2	-
7. Vedic Literature	-	-	-	-	-	-	-	-	2	-	-	2
Total	29	8	17	4	30	6	14	10	32	7	17	8

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Appendix III

GURUKULA KANGRI VISHVAVIDYALAYA

Statement indicating utilisation of grants paid to the Gurukula Kangri Vishvavidyalaya during the Third Plan Period.

Figures in lakhs of Rupees.

Scheme	U.G.C. Share	Third Plan Expenditure	Spill Over	Percentage Utilisation during III Plan.
A. Science				
1) Building (Science Block)	0.88	0.45	0.43	51%
2) Equipment	1.50	0.60	*	40%
3) Books etc.	1.75	1.32	*	76%
Total (A)	4.13	2.37	0.43	55%
B. Humanities and Social Sciences.				
1) Building (Museum & Indology)	2.875	0.30	0.70	11%
2) Equipment	0.155	0.052	*	34%
3) Books etc.	1.00	0.80	*	80%
Total (B)	4.030	1.152	0.70	29%
C. General Schemes				
(a) Printing Press	1.21	1.05	0.16	85%
(b) Research Publications.	0.05	0.025	*	50%
Total (C)	1.26	1.075	0.16	82%
Grand Total	9.42	4.597	1.29	27%

* Balance lapsed.

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Appendix IV

GURUKUL KANGRI VISHVAVIDHAYALA

Commitment as First Charge on Fourth Plan :
Schemes approved during Fourth Plan

Name of the Scheme	Non-recurring	Recurring	Total
A. <u>Science Schemes</u>			
(a) <u>Equipment</u>			
1) Physics	20,000	-	20,000
2) Chemistry	20,000	-	20,000
3) Botany	20,000	-	20,000
4) Zoology	20,000	-	20,000
Total (a)	80,000	-	80,000
(b) <u>Books & Journals</u>			
	22,500	-	22,500
Total (b)	22,500	-	22,500
Total (A)	102,500	-	102,500
B. <u>Humanities and Social Sciences</u>			
Books and Journals	52,500	-	52,500
Total (B)	52,500	-	52,500
C. <u>General Schemes</u>			
Publication of Research Work	5,000	-	5,000
Total (c)	5,000	-	5,000
Total (New Schemes)	1,60,000	-	1,60,000

FINANCIAL IMPLICATIONS OF THE RECOMMENDATIONS
OF THE VISITING COMMITTEE.

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Department Item	Total Estimated Cost		U.G.C. Share	
	Recurring	Non-recurring	Recurring	Non-recurring
1. <u>Department of Ved</u>				
Lecturer 1	11,000	-	5,500	-
2. <u>Department of Sanskrit</u>				
(a) Lecturer 1	11,000	-	5,500	-
(b) Reserach Scholarship 1	18,000	-	18,000	-
3. <u>Department of Philosophy</u>				
Lecturer 1	11,000	-	5,500	-
4. <u>Department of Ancient Indian History & Culture</u>				
(a) Lecturer 1	11,000	-	5,500	-
(b) Assistant Curator 1	11,000	-	5,500	-
5. <u>Department of Hindi</u>				
(a) Lecturer 1	11,000	-	5,500	-
(b) Research Scholarship 1	18,000	-	18,000	-
6. <u>Department of Psychology</u>				
(a) Lecturer 1	11,000	-	5,500	-
(b) Laboratory Attendant 1	5,000	-	2,500	-
(c) Extension of Psychological laboratory (inclusive of services, furniture & equipment)	-	1,50,000	-	1,00,000
7. <u>Department of Mathematics</u>				
Lecturer 1	11,000	-	5,500	-
8. <u>Department of English</u>				
Lecturer 1	11,000	-	5,500	-
9. <u>Colleges of Ved and Arts</u>				
Additional building accommo- dation (including staff room (inclusive of 10% for furniture).	-	3,30,000	-	2,20,000
10. <u>Library</u>				
(a) Assistant Librarian	6,000	-	3,000	-
(b) Books & Journals	-	1,00,000	-	1,00,000
(c) Furniture & Equipment	-	30,000	-	20,000
11. <u>General Schemes</u>				
(a) Staff Quarters for 10 lecturers.	-	2,50,000	-	1,25,000
(b) Hostel for 50 students	-	2,50,000	-	1,25,000
(c) N.R.S.C.-Cum-Common-Room	-	35,000	-	35,000
Total	1,46,000	11,45,000	91,000	7,25,000
Grand Total	(UGC Share NR & R) Rs. 8,16,000			

U.G.C. Share During Fourth Plan : Summary

	Spill over from III Plan	Basic Grants sanctioned in IV Plan	As per recommen- dating of Visiting Committee	Total
Humanities & Social Sciences	70,000	52,500	4,08,000	5,30,500
Science Subjects	43,000	102,500	-	1,45,500
General Schemes	15,667	5,000	4,08,000	4,28,667
Total	128,667	160,000	8,16,000	11,04,667

Total UGC share (Col.7,8,10,12&14)= 596

- | | | | |
|------------------------------------|----------|--|------|
| 1. U.G.C. Share for (a) staff &(b) | (a) 720 | \| | 2220 |
| teaching block continuing in | (b) 1500 | | |
| IIIrd plan. | | | |
| 2. Schemes already approved during | | | |
| IV th Plan: | Staff 15 | | |

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Indian School of International Studies

II - General Schemes
(Rupees in Thousands)

Item	Continuing Schemes	Schemes already approved during IVth Plan		New Schemes		Total U.S.C. share	Remarks
	(U.S.C. share)	Cost	U.S.C. share	Cost	U.S.C. share		
1.		3.	4.	5.	6.	7.	8.
1. Central Library:							
(a) Building	-	-	-	-	-	-)
(b) Staff	-	-	-	85	85	735)
(c) Books	-	200	200	450	450)
2. Students hostel	38	-	-	-	-	38	
3. Staff quarters including Vice-Chancellor's residence	-	-	-	700	350	350	
Total	38	200	200	1235	885	1123	

III - Summary of Allocations (U.S.C. share) to the University for IVth Plan

(Rupees in Thousands)

University/ Institution	Committed Ex. on development	Cost of schemes already approved.	New Schemes			
			Library	Equipment	Deptt.	General

Report of the Visiting Committee appointed by the UGC to assess the Fourth Plan development proposals of the Indian School of International Studies New Delhi.

The University Grants Commission appointed a Committee consisting of the following to assess the Fourth Plan development proposals of the Indian School of International Studies:

Shri B. Shiva Rao
Member
U.G.C.

Prof. P.C. Chakravarty
Jadavpur University
Calcutta-32.

Prof. S. Nurul Hasan
Aligarh Muslim University
Aligarh.

Prof. A.K. Sen
University of Delhi
Delhi.

Dr. (Miss) A.J. Dastur
University of Bombay
Bombay.

Mr. V.H. Coelho
Ministry of External Affairs
New Delhi.

Officers of the Commission.

Shri K.L. Joshi.

Shri R.K. Chhabra.

Dr. J.N. Kaul

Dr. (Mrs) Vina Mazumdar

The Committee visited the I.S.I.S. on 30th and 31st August, 1967.

The Indian School of International Studies was founded in October, 1955 for advanced study and research in international affairs and area studies as a constituent College of Delhi University. It was recognised as an institution deemed to be a university under the UGC Act in September, 1961. The School has been receiving the Maintenance and Development Grants from the UGC since its inception but the payment of the maintenance grant was taken over by the Ministry of Education due to technical reasons w.e.f. 1966-67.

The School offers a three year course leading to the Ph.D. degree. Minimum qualification for admission is an M.A. in History, Politics, Economics, International Relations, Sociology, Law, Geography or Public Administration. Apart from regular students, the School also admits casual students who make use of the facilities at the School for study and research but do not work for a degree of the School. The School offers at present courses leading to the Ph.D. degree in the following fields:-

- (a) International Politics & Organisation
- (b) International Economics.
- (c) European Studies.
- (d) International Law.
- (e) East Asian Studies.
- (f) West Asian Studies.
- (g) South Asian Studies.
- (h) South East Asian Studies.
- (i) Central Asian Studies.
- (j) Commonwealth Studies.
- (k) American Studies and
- (l) Soviet Studies.

During the first year candidates study the following compulsory subjects:-

(i) International Politics & Organisation; (ii) International Law; (iii) International Economics; (iv) Political Geography and the (v) History and Institutions of a region. Candidates are permitted to register for the Ph.D. degree after passing the examination in these compulsory papers.

*Arabic; French; The School provides for instruction in the following languages:- *
Bhasa Indonesia; The School also provides a four-months course in International
Japanese; Affairs to probationers of the Indian Foreign Service.
Chinese; Spanish
& Russian.

A quarterly journal, International Studies, is now in the ninth year of publication. The School has brought out several research monographs prepared by the staff as well as the doctoral theses of the students.

Statistical information regarding enrolment, staff strength, examination results and physical facilities available in the School is given in Appendix-I.

The Committee met the Chairman of the Governing Council, the Director, the Heads of the Department, teachers and the Librarian of the School and discussed the problems faced by them in developing the School and its plan of future development.

The Director pointed out that the School has a special character as an all-India institution serving the needs of only doctoral and post doctoral students. The School also provides research and library facilities to students registered for research degrees in other universities. The Director emphasized the point that 3rd of the students are teachers. He also mentioned that the grants from the Ford and Rockefeller Foundations which had supported the School's Staff-training and Library-acquisition programmes in the first 10 years of its existence, were not available now leaving the School entirely dependent on grants received from the UGC and the Ministry of Education. In view of these considerations the Director indicated the following priorities in the School's development requirements:-

- (a) Library.
- (b) Field Work.
- (c) Fellowships.

Library:

The library of the I.B.I.S. is one of its greatest assets and is used by many who are not students of the School. The notable features of the Library are its remarkable collection of books and periodicals (including newspapers), and the system of referencing and documentation which provides an immense amount of assistance to all

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researchers. During the Third Plan, the School was assisted by the Rockefeller Foundation in acquisition of research material and drew little assistance from the U.G.C.'s. development programmes for the purpose. The attached statement (Appendix-II) indicates the School's expenditure from grants received from various sources on the library acquisition programmes since 1955. A provision is made for Rs 50,000/- per annum for the library in the maintenance grant and the UGC has already approved a basic grant of Rs 2,00,000/- for the Fourth Plan. In view of the cessation of the Rockefeller grant and the recommendations of the School's ad hoc Library Committee constituted in 1964, the Committee recommends additional provision of Rs 4.5 lakhs for the purchase of research material during the Fourth Plan.

During the Third Plan the University Grants Commission sanctioned 12 posts technical and non technical for the library which have all been filled. In view, however, of the library's growing requirements and the services it is called upon to render the Committee recommends the creation of the following additional posts for the library.

Librarian.	One in the grade of Rs 1000-1500.
Professional Assistant	One
Semi-Professional Assistant.	Two
Non-Professional Clerk.	One
Unskilled.	Two

The Committee feels that the proposed bifurcation of the School's library from that of the Indian Council of World Affairs may have some adverse effects on the present arrangements of the library and would like to suggest that steps may be taken to maintain workable relationship between the two units so that researchers are not deprived of the advantages of the present compact arrangement.

Field Work:

The Committee agrees that field work is an essential part of the research in which the School is engaged at present. A statement indicating the number of teachers and students sent out by the School on field work during the last two years is attached (Appendix-III). The School has a provision of Rs 30,000/- in its maintenance grant for this purpose. The Ford Foundation grant which had supported this programme to a large extent in the past is not available now. The Committee recommends a provision of Rs 1.5 lakhs for the rest of the Fourth Plan period (Rs 50,000/- a year) to cover field work for both teachers and students.

Research Fellowships and Scholarships:

The School has a provision for 20 research fellowships @ Rs 200/- and 300/- provided by the UGC. Apart from this the State Governments provide the following scholarships:

- (i) Punjab Government Scholarship. Rs 300.00 a month.
- (ii) West Bengal Government Scholarship. Rs 300.00 a month
- (iii) Maharashtra Government Scholarship. Rs 300.00 a month.
- (iv) Rajasthan Government Scholarship. Rs 200.00 a month.
- (v) Madras Government Scholarship. Rs 300.00 a month.
- (vi) Bihar Government Scholarship. Rs 200.00 a month.

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- (vii) Gujarat Government Scholarship. Rs 300.00 a month
- (viii) Andhra Government Scholarship. Rs 300.00 a month.
- (ix) Uttar Pradesh Government Scholarships (Two Scholarships) Rs 200.00 a month.

During the discussion with the Director and the student representatives, the following considerations were placed before the Committee:-

(a) That discrepancies in the provision of fellowships from different sources created unnecessary feelings of discontent amongst the students. The Director also felt that a Scholarship of Rs 200/- p.m. was no longer adequate for maintaining a student in New Delhi under present conditions. The Committee agrees with these views and recommends that all the fellowships provided by the UGC may be of the value of Rs 300/- per month. A similar representation may be made by the School to the State Governments to revise the value of their scholarships.

(b) Need for more fellowships-

The School had proposed an additional provision of 20 fellowships during the Fourth Plan to enable the School to recruit a larger number of students. The Committee recommends a provision for five (at any given time) additional fellowships @ Rs 300/- p.m.

The Committee However, would suggest that the School may review its policy of not admitting students beyond the number of fellowships available with the School. The Committee feels that many students would be willing to pursue research even without any financial assistance and the School's present policy in this regard tends to discourage such students from seeking admission to the School. This, in the Committee's opinion, would encourage a built-in inefficiency and a wrong academic psychology. The Committee also feels that this policy has restricted the School's admissions to a small number (30 in the current year) and may lead to inadequate utilisation of its resources. The School may, therefore, like to consider revising its present admission policy and admit these students also both on a full-time and part-time basis who cannot be assured a fellowship but who are otherwise eligible for admission.

Teaching Research and Publication

The Faculty of the School is organised in 11 departments with a total staff of 68. The School has 9 sanctioned posts of Professors, of which two are vacant, and one has been filled by a Reader; 14 sanctioned posts of Readers of which three are vacant and one has been filled by a Lecturer; 11 sanctioned posts of Lecturers of which four are vacant; and 34 sanctioned posts of others (Research Fellows, Research Assistants Language Instructors and Documentation Officer) of which eight are vacant. Apart from this the School has three posts of Visiting Professors/Readers, two of which are vacant and one has been filled by the visiting lecturer in Chinese Language. Thus a total of nineteen posts are vacant. (Appendix-IV).

During the Third Plan, the University Grants Commission sanctioned the creation of posts of five Professors, one Visiting Professor, eight Readers, eight Lecturers, one Part-time Lecturer, one Editor of Publications three language Instructors, two Documentation Officers, 15 Research Fellows and two Research Assistants. These posts were sanctioned to enable the School to strengthen its teaching and research programmes as well as to extend its activities to other fields, namely, European Studies, Soviet Studies, Commonwealth, Africa and Latin America. With the appointment of

additional staff the School has been able to strengthen its various Departments and programme and with the appointment of full-time language instructors, it has been able to arrange systematic and and intensive language training.

As persons with requisite qualifications for some of the areas of specialisation were not available, the School had to train the staff and, after completion of their training, appoint them to the posts. Some of the posts still remain vacant due to the non-availability of suitable candidates. Appendix IV indicates the present position of sanctioned posts.

The posts of Research Fellows sanctioned by the UGC have helped the School to undertake research on various specialised projects. Three projects have already been completed and twelve others are in progress.

With the sanction of the post of the Editor of Publications, the School's publication programme is gaining momentum. So far, 15 monographs have been published under the auspices of the School and seven are in the press. The Editor of Publications also looks after the publication of the quarterly journal International Studies. In view of the increasing work, the Committee recommends the post of a Proof Reader for this section.

Department
of American
Studies

The department has a staff of one Professor, one Reader, one Lecturer, one Research Fellow, one Research Assistant and one Instructor in Spanish language (for Latin-American Studies). Since its inception, ten students of the department have received the Ph.D. degree, four are expected to submit their dissertations before the end of this year, three/expected to submit their dissertations during 1968 and seven students are at different stages of their research.

The department has been so far interested in studies in the foreign policy, internal developments and institutions, including social and intellectual trends, of the United States. It is also engaged in a comprehensive study of the United States' relations with India since the first world war. Members of the faculty are actively engaged in various research projects on U.S. - Pakistan relations, U.S.-China relations, the operations of the Aramco in Saudi Arabia, labour and socialist movements in the U.S. during the Great Depression, Catherine Mayo's 'Mother India' and U.S. foreign aid policies.

The department has published over 40 research papers and the first volume in a series of "I.S.I.S. studies in American Foreign Relations." A volume in the series "Roosevelt and Gandhi - the United States and last phase of the Indian Freedom Movement" will go to press in October this year.

The major programme of the department for the Fourth Plan period is the development of teaching and research on Latin America. Some members of the staff have been preparing themselves for the purpose. A one-year training programme was organised in the School by Visiting Professor Dr. Harold E. Davis, Chairman of the Department of Latin American Studies, American University, Washington DC.

The Committee welcomes these proposals and recommends the following additional posts for the purpose.

Reader - one (in Latin American Studies)
Documentation Officer - one.

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Department of East Asian Studies

The Department's staff consists of three Readers, one Lecturer, six Research Fellows, one Documentation Officer and one Research Assistant. The posts of the Professor, two Research Fellows and two Language Instructors (one in Chinese and one in Japanese) are all vacant. It was understood that the candidate selected for one research fellowship was abroad and would be joining shortly. The other fellowship has been allotted for Korean Studies. A candidate sponsored by the School is under training in Korea. The department has a student strength of 13 who are at various stages of their research.

The School desired that two posts of Research Fellows may be converted to that of lecturers. This proposal may be considered during the next Plan. In the meantime the post of a Documentation Officer in Japanese may be provided to the department.

Department of Commonwealth Studies

The staff of the department consists of one Professor who is also Director of the School, one Reader, one Lecturer, one Research Fellow and one Research Assistant. Eight students are engaged in research. The Committee recommends the following additional staff for the department:

Research Fellow (Commonwealth - Africa) ... one
Documentation Officer ... one

Department of Central Asian Studies

The department has one Reader and one Research Assistant. The Committee noted with concern that the department had no student except one in the first year. The Committee also noted that the UGC had sanctioned a research project to the department in September 1962 for a period of three years. This study on the 'Land and People of the Himalayas' was completed in 1965 but has not yet been published. The Committee hopes that the School will take steps to publish this study and recommends the creation of a Research Fellowship in the department to encourage studies in this vital area.

Department of South East Asian Studies

The department has one Reader, one Research Fellow and seven students. The posts of one Lecturer, one Research Fellow and one Research Assistant are vacant. It is understood, however, that the Research Fellow has been selected and is likely to join soon. The Committee suggests that the School should take early steps to fill up the vacant posts and recommends the ~~creation~~ of the post of a Documentation Officer for the Department.

Department of West Asian Studies

The department has one Professor, two Lecturers, one Documentation Officer, one Research Fellow, one Research Assistant and five students. The Professor of West Asian Studies indicated that he would like to develop studies relating to the following regions in the indicated order of priority:

- (i) Turkey
- (ii) Maghreb (Libya, Tunisia, Algeria and Morocco).
- (iii) Iran

The department's present work is concentrated mainly on the Arab East.

The Committee recommends the creation of the post of a Reader for the Department.

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Department of South Asian Studies.

The department has one Professor, one Reader, two Lecturers and one Research Assistant and 21 students. One Reader's post has been filled by a Lecturer. The posts of one Reader, one Lecturer and one Research Assistant are vacant. It is proposed to undertake a research project on 'Indian Diplomacy and Foreign Relations'. The Committee welcomes the proposal and recommends the creation of the posts of two Research Fellows and one Documentation Officer for the department.

Department of Soviet Studies

This department has one Reader and seven students. One Lecturer's post is being filled by a Documentation Officer who is to join shortly. The Reader, a Political Scientist has recently returned after specialising in Soviet Studies in the Soviet Union. The department's collection of material on the Soviet Union is one of the largest in the country. The Committee agrees with the teachers that the study of Soviet economics is a complex subject which requires the services of a highly trained economist, and recommends the following posts.

- Reader (in Soviet Economics) ... One
- Documentation Officer ... One

The Committee also recommends that a separate department of Soviet Studies be established in the School.

Department of International Law .

The department has a staff of one Reader (against the post of a Professor) and one Lecturer. The post of a Research Assistant is vacant. This is one of the service departments since all students of the School have to take a course in International Law in their first year. Apart from the first year students, the department has three students engaged in research. The department also has to provide courses for the I.F.S. probationers. The Committee recommends the creation of the post of a Research Fellow for the department.

Department of International Politics and Organisation.

The department has a staff of two Readers, one Research Fellow and one Research Assistant. The post of the Professor is vacant. The European Studies Section of the department has a staff of one Visiting Professor and one Research Assistant. The post of Reader is vacant. It is understood that a Special Fellow is under training for this post.

The Committee suggests that the School may consider separation of the European Studies Section from the department and taking up some problem-oriented research in international politics and organisation. This being, as the School authorities admit "the key department of the School because the courses given by it are quite fundamental to the whole programme of the school", the Committee suggests that the School should take steps to fill up the vacant posts - particularly that of the Professor and recommends the creation of the following posts:-

- Reader - One (International Politics & Organisation).
- Research Fellow ... one.

International Economics

This is another service department, since it provides a course which is compulsory for all first year students. It also provides an advanced course on international economics and comparative economic development, primarily meant for students taking up research in International Economics. The Committee noted that this course is voluntarily attended by many other students. The department also provides a course on mathematical economics. The staff consists of one Professor, one Lecturer, one part-time Instructor, one Research Fellow and one Research Assistant. One post of Research Assistant is vacant.

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The department is engaged in research in international liquidity and regional development. The staff has specialized on international payments problems, particularly of underdeveloped countries. The Professor whose previous work was on 'disguised unemployment and factor substitution', is currently working on a general theoretical model of growth through trade. The Committee recommends the creation of a Reader's post for the department.

Buildings

The School has been offered land for the construction of staff quarters by the Delhi Administration. It was understood that necessary formalities would be soon concluded. In view of the urgency of the School's requirement, the Committee recommends the following provisions:

	<u>Estimated Cost</u>	<u>UGC Share</u>
Director's Bungalow	Rs. 1,00,000	Rs. 1,00,000
Construction of staff quarters for teachers	Rs. 5,00,000	Rs. 2,50,000

Administrative & Ministerial Staff

The School had submitted proposals for additional administrative staff during the Fourth Plan period. The Committee feels that this may be looked into by the authority responsible for the payment of maintenance grants to the School.

Language Instructors

The School had proposed the creation of 4 posts of language instructors, one each for the Departments of East Asian, Soviet, South East Asian and West Asian Studies. The Committee feels that in order to avoid duplication the School may send its students for instruction to existing language institutes which provide courses in the various languages required by the students. Since such facilities may not be available for all languages, the Committee recommends the post of one Language Instructor which may be utilised by the School according to its requirement.

The financial implications of the Committee's recommendations are attached (Annexure I).

The Committee would like to record its appreciation of the co-operation offered to it by the Director, the Chairman of the Governing Council and other members of the staff during the two days of its visit, and offer the following suggestions for the consideration of the School:-

1. While giving freedom in the final choice of research subjects to the individual scholars, the School may, at the same time, guide them towards purposive and problem-oriented research, emphasising, wherever possible, studies which would be of national benefit. The School may consider coordinated planning of research themes between the staff and students of a department, and between groups of departments, so that the results may provide material for corporate or comparative studies on complex problems of international relations.
2. Since the School has created specialised departments for different areas of the world it may consider developing more studies of an inter-disciplinary nature, including the sociological and cultural aspects, as well as the political and economic ones, which the School appears to be emphasising at present.

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3. Increasing association with other institutions and governmental agencies, particularly the Ministries of External Affairs and Commerce may help to solve some of the difficulties experienced by the School e.g. in obtaining the services of visiting teachers from abroad, in getting research material, or in arranging programmes of academic interchange.

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Annexure I

Financial implications of the recommendations of the
Visiting Committee to the Indian School of Inter-
national Studies.

A. Continuing Schemes

	<u>U.G.C. Share</u>	<u>Spillover</u>	<u>Grant paid IV Plan</u>	<u>Balance payable</u>
	Rs.	Rs.	Rs.	Rs.
(i) Recurring - Staff	--	7, 20, 000	4, 50, 000	2, 70, 000
(ii) Non-Recurring				
(a) New School Building	16, 00, 000	15, 00, 000	4, 50, 000	10, 50, 000
(b) Hostel (61 students)	3, 85, 285	35, 285	--	35, 285
(c) Living room furniture for Hostel.	9, 150	1, 150	1, 000	150
(d) Furniture for Hostel other than living room furniture	1, 200	1, 200	1, 000	200
	<u>19, 95, 635</u>	<u>15, 37, 635</u>	<u>4, 52, 000</u>	<u>10, 85, 635</u>

Total Spill-over Recurring and Non-Recurring. ... Rs. 22, 57, 635

B. Fourth Plan schemes approved by the Commission prior to the committee's visit.

	<u>Grants paid</u>	<u>Balance to be paid</u>
1. N.R.-Basic grant for library books	2, 00, 000	1, 60, 000
2. Recurring-Staff		
1. Research Assistant 1	15, 000	8, 000
Total Recurring and Non-Recurring.	<u>2, 15, 000</u>	<u>1, 68, 000</u>

C. Recommendations of the Visiting Committee

I. Recurring-Academic Staff

	<u>Professors.</u>	<u>Readers</u>	<u>Others</u>	<u>Grant required</u>	
1	2	3	4	5	6
a) American Studies	--	1	1		48, 000
b) E.Asian Studies	--	--	1		18, 000

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1	2	3	4	5	6	
c)	Commonwealth Studies	--	--	2	36,000	
d)	Central Asian Studies	--	--	1	18,000	
e)	Soviet Studies	--	1	1	48,000	
f)	South Eastern Asian Studies.	--	--	1	18,000	
g)	West Asian Studies	--	1	--	30,000	
h)	South Asian Studies	--	--	2	36,000	
i)	International Law	--	--	1	18,000	
j)	Institute of Politics and Organisation	--	1	1	48,000	
k)	International Economics	--	1	--	30,000	
l)	Language Instructor	--	--	1	18,000	
<u>Other staff</u>						
a)	Publications	--	--	1	10,800	
b)	Library	1	--	6	85,000	
		1	5	22	4,61,800	
Fellowships (5)		--	--	--	99,000	
2.	N.R. Books	--	--	--	4,50,000	
3.	R-Field Work	--	--	--	1,50,000	
4.	N.R. Buildings					
	a) Director's Bungalow					1,00,000
	b) Staff Quarters					2,50,000
Total :					<u>14,80,800</u>	
Grand Total of A, B & C					59,53,435	
Recurring					14,15,800	
Non-Recurring					25,37,635	
					<u>59,53,435</u>	

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APPENDIX-I

INDIAN SCHOOL OF INTERNATIONAL STUDIES:

1. ENROLMENT:

1961-62	15
1962-63	19
1963-64	36
1964-65	30
1965-66	24

2. TEACHERS:

	<u>Professors</u>	<u>Readers</u>	<u>Lecturers</u>	<u>*Others</u>	<u>Total</u>
1961-62	3	6	3	3	15
1962-63	3	6	3	2	14
1963-64	4	9	3	8	24
1964-65	7	8	4	7	26
1965-66	7	9	8	6	30

*Part-time Instructor

3. EXAMINATION RESULTS:

Ph.D. (No. Registered for Ph.D.) No. Obtaining the Degree:

1961-62	0	5
1962-63	14	10
1963-64	7	14
1964-65	17	3
1965-66	19	5

4. STUDENTS IN RESIDENCE:

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
Boys.	-	-	-	-	24
Girls	-	-	-	-	9

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5. STAFF QUARTERS:

Professors		
Readers		N I L.
Lecturers.		

6. LIBRARY:

Existing Bldg. New Bldg.

Area of Stack Rooms --- 5,000 sq. ft. 9,800 sq.ft.

Area of Reading Rooms --- 6,000 " 5,600 " "

Total number of books. --- 61,493 -

Total number of books added during 1961-66 18,182.

7. PLAY GROUNDS:

Number Area (in sq. ft.)

One Badminton Court in the Hostel

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APPENDIX-III

INDIAN SCHOOL OF INTERNATIONAL STUDIES:

Field work abroad by students during the last two years.

No.	Name of the student.	Countries of Field Work.	Period	Research Topic
1.	R.P. Dua	London	3 months	British Attitude towards Japan's entry in the World War I.
2.	V.V. Darshane	Geneva and France.	1 year	Franco U.S. Relations.
3.	V. Survanarayana	Singapore & Malaysia.	6 months	Singapore Malaya Relations
4.	K.V. Kesavan	Japan and Philippines Burma, Indonesia.	9 months	Japan's Relations with South East Asia.
5.	N. Rewadikar	Austria	1 year	Austria 1945-55: a study in Big power Negotiations.
6.	P.A.C. Rao	West Germany	2 years	German Export Policy as a Factor in German Economic recovery.
7.	Mrs. S. Viswanathan	Japan	2 years	Japan's Relations with the USSR, 1945-63.
8.	Manoranjan Jha	UK & USA	8 months	United States of India between the two World Wars.
9.	H.G. Pant	Geneva, London & Paris.	10 months	Anglo-French Collaboration in search for Security 1944-49.
10.	R.L. Gupta	London	3 months	Indo-British Relations (1947-50) (Independence Day to Republic Day)
11.	J.A. Naik	Russia	2 years	Soviet Policy towards India 1947-63.
12.	A. Arunachalam	USA	6 months	The United States and Selected non-self-Governing Territories in Africa. A study in application of Article 73(G) and 76(G) of the U.N. Charter.

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1	2	3	4	5
13.	R.K. Burman	Malaya	3 months	Malay's Foreign Policy 1957-63.
14.	K. Veerathappa	London	6 months	Two Attitude of the British Conservative Party to the Indian National Movement, 1930-1947.
15.	R.P. Kaushik	USA & UK	6 months	United States and Indian Policies relating to the Korean War and their Impact on U.S. India Relations 1950-53.
16.	Rahmatullah Khan	USA	4 months	The Law of Implied Powers and Internal Administration of the U.N. Some aspects of International Organisation as subjects of International Law.
17.	Biswanath Singh	USA	2 years	International Civil Service - A Legal Study

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APPENDIX-III

Field work abroad by Teachers during the last two years.

S.No.	Name of Teacher	Name of Place	Period	Name of Research topic
1.	Mrs. Urmila Phadnis	Ceylon	10 months	Religion as a factor in the politics of Ceylon.
2.	Mrs. Gargi Dutt.	Hong Kong	40 days	Rural Peoples communes of China.
3.	Anirudha Gupta.	U.K. & Africa	More than a year.	Politics and Parliament in Zambia.
4.	H.S. Chopra	U.K. & West Europe	1½ years.	Some aspects of De Gaulle Policy towards Western Europe.
5.	L.S. Baral	Nepal	52 days	Panchayat System in Nepal.
6.	Vishal Singh	South East Asia	90 days	To collect research material and to acquaint him with the recent Developments in Southeast Asia.
7.	M.L. Sondhi	Europe	1½ years	Post-World War II Political Transformation in Eastern Europe with special reference to Poland Czechoslovakia and Yugoslavia.
8.	K.R. Singh	Arab countries.	1½ years	The Istiqlal Party of Marocco 1944-56. Its formation, development, programme and politics with special emphasis upon its activities in the French Zone.
9.	R. Vaidyanath	USSR	3 years	From 1st February 1964 for language training and research in Soviet Affairs in USSR.
10.	S. Ansari	U.K.	9 months	To prepare a comprehensive bibliography of primary and secondary sources on "Commonwealth".
11.	M.S. Venkataramani	U.S.A. & Japan	1 year	Research project "United States Relations with India 1941-50.

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KASHI VIDYAPITH

II- GENERAL SCHEMES

(Rupees in thousands)

Item	Continuing Schemes (UGC Share)	Schemes already approved during Fourth Plan		New Schemes		Total UGC share	REMARKS
		Cost	UGC Share	Cost	UGC Share		
1.	2.	3.	4.	5.	6.	7.	8.
1. <u>Central Library</u>							
a. Building	108	-	-	-	-	108	
b. Staff	-	-	-	36	18	18	
c. Books	-	75	75	100	100	175	
d. Equipment	-	-	-	-	-	-	
2. Students Hostel	138	-	-	300	225	363	
3. N.R.S.C.	51	-	-	-	-	51	
4. Teachers' Hostel	250	-	-	-	-	250	
5. Health Centre	35	-	-	-	-	35	
6. Staff quarters including Vice-Chancellor's Residence	97	-	-	150	75	172	
7. Guest House	80	-	-	-	-	80	
8. Others							
Printing Press	75	-	-	30	20.	95	
Hobby Workshop	70	-	-	25*	12.5*	82.5	* For...

Publication		7.5	7.5	30	30	37.5
Total	904	82.5	82.5	671	480.5	1467

III - Summary of Allocations (UGC Share) to the University for the IV Plan

(Rupees in thousands)

University/ Institution	Committed expenditure on develop- ment.	Cost of schemes already approved in IV Plan.	New Schemes					General			Total (4 to 14)	Grand Total 2 + 3 + 13
			Posts	Library Staff	Books	Equipment	Dept. Bldgs.	Students amenities	Staff Res.	Misc.		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11	12	13
Kashi Vidyapith	1133	157.5	196.5	18	160	13.22	500	237.5	75	90	1290.33	2580.83 or 2581

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ANNEXURE 1

KASHI VIDYAPITH

UNIVERSITY GRANTS COMMISSION

Statement showing the approved items and estimated expenditure of Fourth Plan development schemes of Kashi Vidyapith, Varanasi.

I (Faculties and Departments)

(Rupees in thousands)

Faculty/ Department	Staff				Deptl. Books	Equipment		Teaching Block/ Labs.		Other items including scholarships, fellowships, etc.	REMARKS			
	Prof.	Reader	Lect.	Others		Cost Total	UGC Share	Cost	UGC Share			Cost	UGC Share	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
1. Social Work	-	2	-	1	75	37.5	10	10	6.66	-	-	60*	40	* Motor Bus
2. Sociology	1	-	-	-	45	22.5	10	-	-	-	-	-	-	-
3. English	1	1	-	-	78	39.0	10	-	-	-	-	-	-	-
4. Hindi	-	2	-	-	66	33.0	10	10	6.67	-	-	-	-	-
5. Economics	1	1	-	-	78	39.0	10	-	-	500	500	-	-	-
6. History	-	1	1	-	51	25.5	10	-	-	-	-	-	-	-

Total UGC Share (Col. 7, 8, 10, 12 & 14) = 800.89

Total	3	7	1	1	393	196.5	60	20	13.33	500	500	60	40
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1. U.G.C. Share for (a) staff and (b) teaching block continuing in III Plan

(a) 130 (b) 99

2. Schemes already approved during IV Plan

(a) Basic grant for equipment

Nil

(b) Staff (departmentwise & category-wise)

75 (Professor in Hindi)

(Contd.)

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APPENDIX-IV.

INDIAN SCHOOL OF INTERNATIONAL STUDIES

Details of sanctioned filled up and vacant Teaching and Research Posts as on 31.8.1967.

Sl.No.	Department	Maintenance Grant			Development Grant		
		Sanctioned	Filled Up	Vacant	Sanctioned	Filled Up	Vacant
1. American Studies:							
	Professor	-	-	-	1	1	-
	Reader	1	1	-	-	-	-
	Lecturer	-	-	-	1	1	-
	Research Fellow	-	-	-	1	1	-
	Research Assistant	1	1	-	-	-	-
	Language Instructor (Spanish)	-	-	-	1	1	-
	Total:	2	2	-	4	4	-
2. East Asian Studies:							
	Professor	-	-	-	1	-	1
	Reader	1	-	1 (To be advertised in Oct. 67).	2	2	-
	Lecturer	1	-	1	-	-	-
	Research Fellows	-	-	-	8	6	2
	Documentation Officer. (Chinese)	-	-	-	1	1	-
	Language Instructors. (Chinese and Japanese)	-	-	-	2	-	2
	Research Assistant.	1	1	-	-	-	-
	Total:	3	1	2	14	9	5

Action taken for filling up vacant posts

R.A. (Research Fellows):
 For one of the posts, the candidate selected is abroad (Shri K.V. Kesava).
 He will be joining shortly.
 The other post has been allotted for Korean Studies. The School sponsored candidate is undergoing training in Korea (Shri Vipin Chandra).
Language Instructor. The post of lecturer in Japanese is being advertised.

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S.No.	Department	Maintenance Grant			Development Grant		
		Sanctioned	Filled Up	Vacant	Sanctioned	Filled Up	Vacant
3.	<u>Commonwealth Studies:</u>						
	Professor.	1	1	-	-	-	-
	Reader	-	-	-	1	1	-
	Lecturer	-	-	-	1	1	-
	Research Fellow	-	-	-	1	1	-
	Research Assistant	1	1	-	-	-	-
	<u>Total:</u>	<u>2</u>	<u>2</u>	-	<u>3</u>	<u>3</u>	-
4.	<u>Central Asian Studies:</u>						
	Professor.	-	-	-	-	-	-
	Reader	1	1	-	-	-	-
	Research Assistant.	1	1	-	-	-	-
	<u>Total:</u>	<u>2</u>	<u>2</u>	-	-	-	-
5.	<u>South East Asian Studies:</u>						
	Reader	-	-	-	1	1	-
	Lecturer	1	-	1 (Being advertised soon).	-	-	-
	Research Fellow	-	-	-	2	1	1
	Research Assistant.	1	-	1 (Advertised recently).	-	-	(The selection has made. The selected didate is to join October, 1967).
	<u>Total:</u>	<u>2</u>	-	<u>2</u>	<u>3</u>	<u>2</u>	<u>1</u>
6.	<u>West Asian Studies:</u>						
	Professor.	-	-	-	1	1	-
	Reader	-	-	-	-	-	-
	Lecturer	1	1	-	1	1	-
	Documentation Officer (Arabic)	-	-	-	1	1	-
	Research Fellow	-	-	-	1	1	-
	Research Assistant.	1	1	-	-	-	-
	<u>Total:</u>	<u>2</u>	<u>2</u>	-	<u>4</u>	<u>4</u>	-

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S.No.	Department	Maintenance Grant			Development Grant		
		Sanctioned	Filled Up	Vacant	Sanctioned	Filled Up	Vacant
10.	<u>Soviet Studies Section:</u>						
	Reader	-	-	-	1	1	-
	Lecturer	-	-	-	1	-	1
							(A documentation Officer has to join soon).
11.	<u>International Economics:</u>						
	Professor	1	1	-	-	-	-
	Lecturer	-	-	-	1	1	-
	Part-time Instructor	-	-	-	1	1	-
	Research Fellow	-	-	-	1	1	-
	Research Assistant	2	1	1	-	-	-
	<u>Total:</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>3</u>	<u>-</u>

Note: In addition to the above sanctioned posts, the School has got three posts of Visiting Professors/Readers, which have been filled up as follows:

1. Mr. G.T. Hu - Visiting Lecturer in Chinese Language.
2. Vacant.
3. Vacant.

<u>Grant:</u>	<u>Sanctioned</u>	<u>Filled Up</u>	<u>Vacant</u>
Maintenance Grant	24	14	10
Development Grant	44	35	9
Reserve Bank of India - Grant	3	2	1
<u>Grand Total:</u>	<u>71</u>	<u>51</u>	<u>20</u>

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S.No.	Department	Maintenance Grant			Development Grant		
		Sanctioned	Filled Up	Vacant	Sanctioned	Filled Up	Vacant
7.	<u>South Asian Studies:</u>						
	Professor	-	-	-	1	1	-
	Reader	2	1	1	1	1*	-
				(Interview is to be held on 8.9.67).			(The post of Reader has been filled up with a Lecturer).
	Lecturer	-	-	-	2	1	1
						(The post has been advertised recently.)	
	Research Assistants.	2	1	1 (Being	-	-	-
	<u>Total:</u>	4	2	2 advertised	4	3	1
8.	<u>International Law:</u>						
	Professor	-	-	-	1	1*	-
							(The post of Professor has been filled up with a Reader).
	Lecturer	-	-	-	1	1	-
	Research Assistant.	1	-	1	-	-	-
			(Selection has been made. She will join in Oct. 67).				
	<u>Total:</u>	1	-	1	2	2	-
9.	<u>International Politics and Organisation:</u>						
	Professor.	1	-	1	-	-	-
	Reader	1	1	-	1	1	-
	Research Fellow	-	-	-	1	1	-
	Research Assistant.	1	1	-	-	-	-
	<u>European Studies Section:</u>						
	Visiting Professor	-	-	-	1	1	-
	Reader	-	-	-	1	-	1
							(Special Fellow is under training).
Research Assistant	-	-	-	1	1	-	
<u>Total:</u>	3	2	1	5	4	1	

UNIVERSITY GRANTS COMMISSION

Report of the Visiting Committee of KASHI VIDYAPITH

The Committee appointed by the University Grants Commission to assess the Fourth Plan development schemes of the Kashi Vidyapith consisted of the following:

1. Dr. Salamatullah,
Principal,
Teachers' College,
Jamia Millia Islamia,
New Delhi.
2. Dr. Harbans Lal Sharma,
Head of the Hindi Department,
Aligarh Muslim University.
3. Dr. S. P. Verma,
Head of the Political Science Department,
University of Rajasthan.
4. Dr. R. N. Saxena,
Director,
Institute of Social Sciences,
Agra.
5. Dr. A. K. P. Sinha,
Director,
Institute of Psychological Research and Study,
Patna University.
6. Dr. A. M. Khusro,
Professor of Economics,
Institute of Economic Growth,
Delhi University.

Officers of the Commission

1. Dr. R. C. Gupta,
Development Officer,
University Grants Commission.
 2. Dr. T. N. Hajela,
Education Officer,
University Grants Commission.
2. The Committee visited the Kashi Vidyapith on 29th September, 1967 and discussed the development proposals of the Vidyapith with the Vice-Chancellor, the Deans of the Faculties, the Heads and staff of the departments. The Committee also met a group of students of the Vidyapith.

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3. The Kashi Vidyapith was founded by Mahatma Gandhi in the year 1921 during the Non-cooperation movement. In 1937, the Shastri degree of the Vidyapith was recognised as equivalent to the B.A. degree of the other Universities. In 1947, the Institute of Social Sciences was started with the department of Social Work as a nucleus. The Vidyapith was recognised as an Institution deemed to be a University under section 3. of the U.G.C. Act by Government of India notification dated 16th July, 1963. In the first instance, it was recognised for teaching in Social Work. Later on recognition was extended to postgraduate courses in Hindi, History, English, Sociology and Economics. The Vidyapith has started enrolling students for the Ph.d. degree in these disciplines.

4. Some basic facts and figures about the Vidyapith are given below :

(i) The Vidyapith has Postgraduate departments in Hindi, English, History, Sociology, Social Work and Economics. Instruction is also being imparted up to the degree level in these disciplines as well as in Sanskrit, Philosophy, Political Science and Psychology. The Vidyapith is also conducting Visharad (High School) examination and Antarim (Intermediate) courses.

(ii) The total student enrolment in the Vidyapith has increased from 889 in 1962-63 to 1760 in 1967-68. Figures of postgraduate enrolment in 1967-68, departmentwise, are : Social Work - 95; Sociology - 294; Economics - 219; Hindi - 103; English - 110; and History - 80. The total enrolment at the Shastri (B.A.) stage is 767. There are 92 students in Antarim classes.

.....3/-

(iii) In 1966-67, the teaching staff in the Vidyapith consisted of 2 Principals, 7 Professors, 5 Readers, 62 Lecturers and 11 others. With the student enrolment of 2013 in 1966-67, the teacher-pupil ratio works out to 1 : 23. In 1967-68 the total number of students registered for the Ph.d. degree is as follows :

	<u>Department</u>	<u>Research Enrolment</u>
1.	Hindi	5
2.	English	15
3.	History	2
4.	Sociology	53
5.	Economics	41
6.	Social Work	18
		134
	Total:	134

(iv) An analysis of examination results of various examinations during the last three years shows that on an average the pass percentage was 70 at Shastri; 90 at M.A. English; above 90 at M.A. Hindi; 97 at M.A. History; 94 at M.A. Economics; 93 at M.A. Sociology; and 91 at M.A. Social Work.

(v) The Vidyapith provides residential accommodation to 80 men and 19 women students; the proportion of students in residence being 15%. A number of students have to live outside in rented rooms. There are 36 staff quarters, 18 for teaching staff and 18 for other staff.

(vi) The staff of the Vidyapith have published a number of research papers and text books in Hindi in various disciplines. The departments of Hindi, English, Economics and Social Work have also been publishing

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their research journals. The departments of Sociology and Social Work have undertaken various research projects, especially those relating to juvenile delinquency. Some members of these departments also participated in international conferences and are members of various national and international societies. The department of Economics has done considerable work in the field of rural re-construction.

The Vidyapith attaches importance to social service. A Social Service Centre has been set up for this purpose. The Institute of Criminology and Penology has been doing work in the field of jail reforms and rehabilitation.

PART - II

Meeting with the students

The students, whom the Committee met, stressed the need for essential facilities in the Vidyapith campus such as a stadium, playgrounds, cafeteria, auditorium, Employment Bureau, Cycle Sheds etc. They stated that the reference and text-books section of the Vidyapith library should be enriched. The need for additional residential accommodation for boys and girls in the Vidyapith was also stressed. They also complained about the lack of facilities for participation in Inter-University Sports. The students urged that more research scholarships should be allocated to the Vidyapith and more emphasis given to tutorials and sessional work. It was also stated that the degrees of the Vidyapith have not been recognised by all the universities in India, with the result that the students sometimes faced difficulties in obtaining employment.

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PART - III

Utilisation of Third
Plan grants

From the statement of spill-over (Annexure - 1) it is observed that the utilisation of the Commission's Third Plan grants by the Vidyapith has been slow. We were told that the main difficulties in the implementation of the development schemes were : firstly, the receipt of the sanction of the Commission in 1964 and secondly, the delay in getting the grants in time owing to the difficulty in procuring the P.W.D. certificates in respect of its building programmes. The non-availability of building materials on approved rates was also responsible to some extent for this slow progress.

During the Third Five Year Plan, the Commission sanctioned schemes, involving a recurring expenditure of Rs.2,01,200 (for two years) and a non-recurring expenditure of Rs. 19,92,528/- of which Commission's share was Rs. 1,00,600 (R) and Rs. 13,13,029 (NR). The total spill-over, of Third Plan schemes of the Vidyapith is Rs. 1,30,000 (for three years) in respect of schemes involving recurring expenditure and Rs.10,03,413 for non-recurring expenditure on approved projects. In addition, the Commission has sanctioned the post of Professor for the department of Hindi, Rs. 75,000/- for the purchase of books and journals and Rs. 7,500/- for the publication of research works and doctoral theses, during the IV Plan. The total committed expenditure thus amounts to Rs. 12,90,913/-.

The University Grants Commission requested the Vidyapith to formulate proposals requiring an expenditure of Rs.10 lakhs for the first priority programmes

and Rs. 10 lakhs for projects given the second priority. The Vidyapith forwarded to the Commission proposals amounting to Rs.60,00,000/-. The details of these proposals have been given in Annexure - II.

PART - IV
Recommendations

After a detailed examination of the proposals and discussions with the Vidyapith authorities, the following recommendations are made :

1. Department of Social Work:

The Vidyapith earlier had a composite department of Applied Sociology and Sociology. On the recommendation of the U.G.C. Committee under the chairmanship of Prof. A.R. Wadia, the Vidyapith bifurcated this department into the department of Social Work and the department of Sociology. At present the annual out-turn of the department of Social Work at the M.A. level is about 50. There is a special emphasis on medical and psychiatric social work. Recently, in pursuance of the recommendations of the U.G.C. Committee referred to above, 3 major courses in "economic basis of social development", "political systems and social change," and "psycho-dynamics of social development" have been introduced as composite parts of the postgraduate course. Social work is also one of the optional subjects at the undergraduate level. There are 105 students in this discipline at B.A. stage and 96 students at the M.A. level. Eighteen students are registered for the Ph.d. degree. A number of projects under investigation, are being financed by the State Government, the Planning

Commission, the Welfare Administration of U.S. Government, the Central Social Welfare Board and the Gandhian Institute of Social Studies, Varanasi. Attached to the department of Social Work are the social service centre, the institute of criminology and penology, and a small statistical laboratory. The sanctioned strength of the teaching staff in the department (both for social work and sociology) is Professor 1, Readers 4, Lecturers 19, Field Work Supervisors 2, Research Assistant 1, Instructors 2, Statistician 1 and Visiting Professor 1. The post of Professor is lying vacant which should be filled up soon. We recommend that 2 posts of Readers, 1 in social psychology and the other in research methodology, 1 research assistant, Rs.10,000/- for the purchase of books and journals and Rs. 10,000/- for the purchase of equipment for the statistical laboratory may be provided to the department. The Commission approved an expenditure of Rs.40,000 in the Third Plan for the purchase of a motor bus, but owing to the non-availability of the vehicle within this amount, it could not be purchased. The estimated cost of the vehicle is now stated to be Rs. 60,000/-. This may be approved as a motor bus is necessary.

2. Department of Sociology:

There are 125 students in M.A. Previous and 169 in M.A. Final. Instruction is also imparted in Sociology as an elective discipline at the undergraduate stage. The department has also registered 53 students for the Ph.d. degree. We recommend that 1 post of Professor and Rs.10,000 for the purchase of books and journals may be provided to the department. The Vidyapith has

requested for a separate building for this department, but we feel that the department can, for the present, be accommodated in the building sanctioned by the Commission during the Third Plan for the department of Social Work.

3. Department of English:

The medium of instruction and examination in the Vidyapith is Hindi but English is a compulsory subject in the High School, Intermediate and B.A. examinations conducted by the Vidyapith. The courses prescribed for various examinations are given in Annexure III.

The department of English is looking after 773 students in B.A. and 113 in M.A. and has admitted 15 scholars for Ph.d. degree. The staff of the department consists of 6 Lecturers, 2 Research Scholars and 2 honorary Professors (working under the U.G.C. scheme of retired teachers). In view of the need for strengthening the teaching of English in the Vidyapith and the fact that the department is at present headed by a senior lecturer, we recommend that the posts of 1 Professor and 1 Reader at Rs. 10,000/- for the purchase of books and journals may be sanctioned to the department.

4. Department of Hindi:

The department has 1045 students in undergraduate classes, 103 in postgraduate classes and 5 are registered for Ph.d. The staff consists of 1 Professor and 7 Lecturers. The teaching load per week per teacher is between 17 to 18 periods. The post of a Professor has been sanctioned already by the U.G.C. during the Fourth Plan. We recommend that the posts of 2 Readers may be sanctioned to the department. An amount of Rs.10,000/- for the purchase of

books & journals and Rs.10,000/- for linguistics equipment may also be sanctioned to the department. The Vidyapith proposes to introduce diploma courses in Linguistics and Journalism and undertake special research projects in the History of Indian Journalism and comparative study of Idioms in Indian and foreign languages. In view of the need to consolidate the existing courses, the committee is of the opinion that these new programmes may not be started at the present stage.

5. Department of Economics:

The department of Economics has 307 students in Shastri, 218 in M.A. and 41 are registered for Ph.d. The staff consists of 1 Reader, 8 Lecturers and 1 Instructor. The department has brought out a number of books in Hindi and contributed learned papers which have been published in journals like Yojana, Arthik Samiksha etc. The department has been bringing out a research journal, entitled "Arthiki". The main interest of the department lies in developing studies and research in Gandhian Economics, Rural re-construction, Cooperation and Community Development, Industrial and Labour Management, and Demography and Manpower Planning. The department proposes to start diploma courses in these fields. It has also a proposal for the translation into Hindi of standard text-books on Economics. We feel that the introduction of diploma courses could be postponed and attention given to these subjects within the postgraduate curriculum. For translation of standard text-books and research articles the Vidyapith may explore the possibility of obtaining some assistance from the

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Government of India. We recommend that, the posts of 1 Professor and 1 Reader may be provided to the department of Economics during the Fourth Plan. In addition, Rs.10,000/- may also be sanctioned for the purchase of books and journals.

6. Department of History:

The department has been offering facilities for study and research in Ancient Indian History. Attention has not been given to other branches of Indian History viz. Modern and Medieval, and to Western and Asian History. The department has 83 students in Shastri, 84 in M.A. and 2 students are registered for the doctoral degree. The staff of the department consists of 1 Professor, 2 Lecturers and 1 Instructor. The department wishes to provide facilities for study and research in the fields of Medieval and Modern History. It also proposes to write a history of the Himalayan Region and to explore the pre-historic sites in the Vindhaya region. We recommend that the posts of 1 Reader and 1 Lecturer may be sanctioned to the department, in addition to a book grant of Rs. 10,000.

7. Postgraduate Arts Block:

In view of enrolment at postgraduate and research levels and the small size of the existing class-rooms, we feel that the Vidyapith may be provided with a separate postgraduate Arts Block with bigger rooms. The present building after the construction of the Arts Block may be used only for undergraduate classes. The Arts Block may cover a built up area of 20,000 sq. ft. and house the departments of Hindi, History, English and Economics.

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8. Publication of Research Material:

The Committee observed that the departments of Social Work, Sociology and Economics have been collecting first-hand information on some of the important problems of Indian/Social Structure. Some of the information so collected has been processed in the Statistical laboratory and published in the research journals brought out by the departments of Social Work and Sociology. We were informed that huge material was still lying with these departments, which if published could be of great help to other Universities and agencies connected with programmes of research in the fields of Industrial, Social and Economic welfare. The Commission has allocated an amount of Rs.7,500 for the publication of research works and doctoral theses during the current Plan. We feel that this amount may not be adequate for publishing the research material which is lying with the various departments of the Vidyapith, and, therefore, recommend that an amount of Rs.30,000 may be provided for the publication of research material in addition to Rs.7,500 already approved for the purpose.

9. University Library:

There are more than 71,000 books and journals in the Central Library of the Vidyapith. The library remains open from 8 A.M. to 8 P.M. The text-books section of the library is weak and the students also complained that adequate number of text-books were not available to them. The present staff of the library consists of the Librarian, 2 Asstt. Librarians, 2 Cataloguers, 1 Counter Assistant, 1 Correspondence Clerk, 1 Typist, 4 book-pickers,

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1 Cleaner and 5 Class IV staff. On an average 100 books and 70 journals are issued everyday. In view of large number of students and the long working hours of the library we recommend that the posts of 1 Professional Assistant, 1 Cataloguer and 2 Counter assistants may be provided to the Central Library. A general grant of Rs.1,00,000/- may also be sanctioned to the Vidyapith for the purchase of books and journals during the Fourth Plan.

10. General Schemes:

During the Third Plan the Commission gave assistance to various Universities for the establishment and improvement of printing presses on a sharing basis of $\frac{2}{3}$: $\frac{1}{3}$. The Commission approved the proposal of Kashi Vidyapith at a cost of Rs. 1,58,000, of which its share was Rs.1,05,334. The Vidyapith has been facing shortage of English and Hindi types and requires Rs. 30,000 for this purpose. We recommend that this expenditure may be approved on the usual sharing basis.

The Vidyapith has not been able to provide suitable cycle sheds and the students made a special reference to this. We recommend that a cycle shed may be provided to the Vidyapith at an estimated cost of Rs.25,000/-.

We observed that in the boys' hostel, some rooms have been allotted to the dispensary and to the NCC for office and storage of kits. Similarly in Women's hostel a few rooms are being used as store rooms. These should be made available for living accommodation. Since the number of women students is increasing every year and most of them are refused admission owing to the paucity of hostel accommodation, we recommend that a women's hostel for 50 students may be provided.

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We recommend that 24 quarters for class IV employees at an estimated cost of Rs.1.50 lakh may also be provided.

The financial implications of these recommendations are given in Annexure IV. A brief resume is as under :

	<u>Total Estimated cost</u>	<u>Share of the U.G.C.</u>
Recurring	Rs. 4,29,000	Rs. 2,14,500
Non-Recurring	Rs.12,75,000	Rs.10,75,832
Total	Rs.17,04,000	Rs.12,90,332
Committed Expenditure	....	Rs.12,90,913
Total allocation (U.G.C., share)	....	Rs.25,81,245
	or say:	Rs.25,81,250

PART - V

General Observations and
Recommendations

1. Fifty percent of the total enrolment in the Vidyapith is in the undergraduate classes. Apart from this, the Vidyapith is also running intermediate courses. The Committee is of the opinion that the enrolment at undergraduate, postgraduate and research levels has to be related to the facilities available and that it would be an advantage to discontinue Visharad and Antarim courses. The Committee appointed by the Commission to review the working of the Vidyapith under the Chairmanship of Prof. A.R. Wadia, also pointed out that "the Vidyapith has not given consideration to the recommendations of the earlier Committee with regard to discontinuance of Antarim and Visharad courses". We were informed that while regular classes are held for Antarim courses, students for

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Visharad are allowed to appear privately. The question of discontinuance of these courses is under the active consideration of the Vidyapith and the Vice-Chancellor stated that very soon the Vidyapith may decide to discontinue these courses.

The U.G.C. Committee under the Chairmanship of Prof. Wadia also recommended that "the Vidyapith may consider the question of limiting admissions to undergraduate and postgraduate courses in the light of the facilities available." Owing to unrestricted admissions, there is over-crowding in the classes. Careful consideration should be given to limit the number of admissions to each course in the light of the physical and academic facilities available.

2. The Vidyapith has introduced and registered students for Ph.d. in Sociology, Social Work, Economics, English, History and Hindi, although the concurrence of the U.G.C. had not been obtained to the introduction of these courses. The Vidyapith apprised the Committee of the research programmes already undertaken by the staff and students. The research journals produced by the departments of Economics, Sociology and Social Work were seen by the Committee and a few research scholars were interviewed. The general opinion was that the Vidyapith could undertake research activities in the disciplines in which it is running postgraduate courses, and that it would be an advantage to link postgraduate teaching with research.

3. Regarding the observations of the Wadia Committee about the practice of allowing candidates to appear privately for various examinations and the powers to

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affiliate institutions, the Vice-Chancellor pointed out that although in the Constitution it has been provided that the Vidyapith may grant affiliation to other institutions, in practice this provision has never been used. We were informed that since the Constitution of the Vidyapith was framed long ago for registration under the Societies Registration Act, this provision was made and it had not been changed. It was also stated, that the practice of admitting private candidates on a restricted basis to the examinations of the Vidyapith was not in any way unusual, since this facility was allowed by several Universities in India. We were informed that the following categories of private students were permitted to appear for the different examinations including postgraduate courses except M.A.S.: (i) all women possessing the requisite academic qualifications; (ii) political sufferers and their departments; (iii) Army personnel and their dependents during the emergency period and three years thereafter; (iv) teachers of recognised institutions with 18 months' teaching experience (v) staff working in libraries of schools, colleges and Universities; (vi) employees of Kashi Vidyapith after one year of their confirmation; and (vii) Burmese immigrants.

The Vice-Chancellor stated that so far as persons belonging to categories (i) and (iv) are concerned almost all the Universities are granting this facility. As regards persons falling in (ii), (iii) and (vii), it is being done under the orders of the Central and State Governments. Regarding persons belonging to (v) and (vi) the V.C. stated that the Vidyapith was contemplating to restrict their number by prescribing more stringent conditions.

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4. We collected information regarding the proportion of internal and external examiners and found that in 1967 out of 112 examiners 63 were external and 49 were internal. The Vice-Chancellor stated that although according to the statutes 50% of the examiners have to be appointed from outside the University, in practice, the percentage of external examiners is between 60 and 70.

5. The Committee observed that the existing building in which the administrative block and Arts departments are located is insufficient for the present needs and future requirements of the Vidyapith. The most of the class-rooms are small and cannot generally accommodate more than fifty at a time, when the enrolment in each section/class is much more. There is an apparent need for more class-room accommodation. The administrative block appears to be over-crowded. The examination branch is working in the corridor on the first floor, which does not appear to be a proper arrangement.

6. The campus of the Vidyapith does not appear to be well-maintained. There are no roads and lawns, and the place has a barren look. The Vidyapith may give some thought to putting its campus in proper shape.

7. In view of the need to consolidate and strengthen the existing academic programmes, it would be desirable if the Vidyapith postpones the introduction of new courses. We support the recommendations of the Wadia Committee that "the question of introducing M.A. courses in Political Science, Psychology, Philosophy and Sanskrit should be considered in the Fifth Plan".

8. The Vice-Chancellor stated that the Vidyapith

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was passing through a financial crisis. The Committee noted that during 1963-64 and 1964-65 the maintenance grant was paid by the Commission and for 1965-66 and 1966-67 by the Ministry of Education on an adhoc basis. The amount of the maintenance grant has not yet been finally determined. We recommend that early action may be taken by the authorities concerned to determine the maintenance grant payable to the Vidyapith.

We are happy to place on record our thanks to the Vice-Chancellor and the Vidyapith authorities for giving us cooperation in our work.

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ANNEXURE - I

Statement showing committed expenditure on III Plan schemes and fresh sanctions given during the current plan - first charge on the IV Plan allocations.

Committed expenditure of III Plan Schemes :

(i) Recurring Schemes

Name of the Scheme	Grants sanctioned (UGC share)	Grants paid upto 31.3.66	Grants paid after 31.3.66.	Balance to be paid during the IV Plan period	Total committed expenditure
1	2	3	4	5	6

(Fig. in Rupees)

Staff
(Deptt. of Social Work and Sociology)

No. of posts approved

P	R	L	O
1	4	1	8

No. of posts filled in

P	R	L	O
1	4	1	8

1,00,600 35,000
(for two years)

- 1,30,000 1,30,000
(for 3 years) (for 3 years)

Total: 1,30,000

(ii) Non-recurring Schemes

1. Equipment	35,000	18,000	(Balance has lapsed)	-	-
2. Books	60,000	60,000	-	-	-
3. Building for college of Social Work	1,24,034	25,000	40,000	59,034	99,034
4. Library building	3,33,300	2,25,000	-	1,08,300	1,08,300
5. Health Centre	50,000	15,000	15,000	20,000	35,000
6. Guest House	1,00,000	20,000	5,000	75,000	80,000
7. Vice-Chancellor's House	34,133	-	10,000	24,133	34,133
8. Teachers' Hostel	3,00,000	50,000	2,35,000	15,000	2,50,000
9. Men's Hostel	1,87,740	50,000	1,10,000	27,740	1,37,740

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1	2	3	4	5	6
10. Construction of staff quarters (18 quarters)	83,356	20,000	10,000	53,356	63,356
11. Printing Press	80,000	5,000	10,000	65,000	75,000
12. Hobby Workshop	70,000	-	25,000	45,000	70,000
13. N.R.S.C.	50,850	-	6,000	44,850	50,850
				Total:	10,03,413

(iii) Sanctions given during the current Plan:

(a) Books and Journals	-	75,000
(b) Publication of Research works and doctoral theses-		7,500
(c) Professor of Hindi		75,000
	Total:	1,57,500

Total committed expenditure

(i) Third Plan recurring	-	Rs. 1,30,000
(ii) Third Plan non-recurring	→	Rs.10,03,413
(iii) New sanctions	-	Rs. 1,57,500
	Total:	Rs.12,90,913

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Development Schemes for Fourth
Five Year Plan (1966-71).

Proposed Development Schemes for the
Five Year Plan, as revised are given below,
of expenditure involved. These may be briefly
in three categories; namely (A) Continuation
(B) Expansion Programmes and (C) Building Con-
struction Programmes:-

(A) Continuation Programmes

Scheme No. 1

Additional requirement of Teaching Staff for
branches of education.

Subject	Prof.	Reader	Lect.	Instr.	
(a) Social Work	-	2	2	-	Of th One v Fie Di
(b) Sociology	1	1	2	-	
(c) Economics	1	2	2	-	
(d) History	-	1	3	-	
(e) English	1	2	2	1	
(f) Hindi	1	2	2	1	
(g) Politics	-	1	2		
(h) Psychology	-	1	2		
(i) Philosophy	-	1	2		
(j) Sanskrit	-	1	2		
(k) Physical education	-	-	1		
	4	14	22		

The estimated recurring cost of

For
(1)

- (1) Four Professors - 5
(2) Fourteen Readers -

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(3) Twenty Two Lecturers	1,40,000	7,00,000
(4) Three Instructors	12,000	60,000
	<hr/>	<hr/>
	Rs. 3,46,000	17,30,000
	<hr/>	<hr/>

Scheme No. 2

Development of Library

	<u>Non-recurring</u> (In Rs.)	<u>Recurring</u> (In Rs.)
(1) Books and Reading Materials	2,00,000	50,000
(2) Furniture including shelves	50,000	-
(3) Apparatus, including Duplicator and Type-writers	10,000	-
(4) Research Cubicles(20)	40,000	-
(5) Additional Staff required:-		
(i) One Reference Guide	Rs. 400-800	
(ii) Two Senior Lib. Asstt.	Rs. 250-400	
(iii) One Steno-typist	Rs. 150-380	
(iv) Two Counter Assistants	Rs. 130-280	
(v) Two book-Pickers	Rs. 70-95	
(vi) Two Peons	Rs. 70-95	
	Rs. 3,00,000	Rs. 78,000 x 5
		<hr/>
		Rs. 3,90,000
		<hr/>

Scheme No. 3

Development of Vidyapith Press

Estimated Non-Recurring Expenditure :-

	Rs.
(i) Extension of Building	20,000
(ii) Replacement and Addition of machines	25,000
(iii) Furniture etc.	5,000
	<hr/>
	50,000
	<hr/>

...3/-

(671)

-: 3 :-

Recurring Expenditure on Additional Staff :-

		For one year (In Rs.)	For 5 years (In Rs.)
(i) One Store Clerk	Rs. 130-280	2,500	12,500
(ii) Technical staff (Machine man, Imposer, Feeder & Metal Caster) - Four	Rs. 70-85	5,000	25,000
(iii) Binder - One	Rs. 70-85		
(iv) Packer - One	Rs. 70-85		
(v) Ruling Machine- man - One	Rs. 70-85	5,000	25,000
(vi) Carpenter - One	Rs. 70-85		
		<u>12,500</u>	<u>62,500</u>

(B) Extension Programmes

Provision for teaching of the following additional subjects in Shastri (B.A.) classes :-

- (a) Geography.
- (b) Mathematics.

	<u>Requirement of Staff</u>	
	<u>Lecturer</u>	<u>Instructor</u>
Geography	1	1
Mathematics	1	1
	<u>2</u>	<u>2</u>

Estimated recurring Expenditure:-

	For one Year (In Rs.)	For 5 Years (In Rs.)
(i) Two Lecturers	12,700	63,500
(ii) Two Instructors	8,000	40,000
	<u>Rs. 20,700</u>	<u>Rs. 1,03,500</u>

Non-Recurring Expenditure :-

Books & Equipments Rs. 15,000

...4/-

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-: 4 :-

Scheme No. 2

Provision for Diploma courses in the following Languages:-

- (a) Tamil
- (b) Russian
- (c) German.

Estimated Recurring Expenditure :-

	<u>For one Year</u>	<u>For 5 Years</u>
	(In Rs.)	(In Rs.)
Three Part-time Lecturers, Rs. 300/- p.m. (Fixed) each.	10,800	54,000

Estimated Non-Recurring Expenditure :

Books	5,000
-------	-------

Scheme No. 3

Establishment of Basic
Training College

Estimated Recurring Expenditure :

	<u>For one Year</u>	<u>For 5 Years</u>
	(In Rs.)	(In Rs.)
(a) Books, Teaching Materials and office contingencies.	25,000	1,25,000
(b) <u>Expenditure on Staff:</u>		
College Staff:		
(1) Principal One Rs. 1000-1500	13,500	67,500
(2) Reader One Rs. 700-1100	10,000	50,000
(3) Lecturers Four Rs. 400-800	24,000	1,20,000
(4) Head Clerk- One Rs. 210-425 Cum-Accountant	4,000	20,000
(5) Steno-typist One Rs. 150-380	3,000	15,000
(6) Clerk One Rs. 130-280	2,500	12,500
(7) Peons Two Rs. 70-85	2,500	12,500
Practising School:		
(1) Head Master One Rs. 400-800	6,000	30,000
(2) Teachers Ten Rs. 120-320	25,100	1,25,000
(3) Lab. Asstt. Two Rs. 80-150	3,600	18,000
(4) Clerk One Rs. 130-280	2,500	12,500
(5) Peons Two Rs. 70-85	2,500	12,500
	<u>1,04,100</u>	<u>5,20,500</u>

Non-recurring Expenditure :-

(1) Books & Equipments	Rs. 50,000
(2) Furniture and Aparatus	Rs. 50,000
	Rs.1,00,000

Scheme No. 4

School for Mentally & Emotionally Handicapped Children.

The scheme envisages creation of a separate unit under Departments of Social work and Psychology for work on special problems of mentally handicapped and emotionally retarded children. The objective is to study the individual and group problems of such children, to provide expert service, diagnostic and treatmental, and to conduct research on problems relating to them.

Recurring Expenditure:

(a) On Staff:	For One Year	For 5 Years
	(In Rs.)	(In Rs.)
(1) Psychologist One Rs.400-800	6,000	30,000
(2) Social Case Worker One Rs.300-500	4,600	23,000
(3) Case History Reader One Rs.150-380	3,000	15,000
(4) House Father/Mother One Rs.150-380	3,000	15,000
(5) Office Assistant One Rs.130-280	2,500	12,500
(6) Peons Two Rs. 70-85	2,500	12,500
	Rs. 21,600	Rs. 1,08,000
(b) Scholarships Two @ Rs.50 p.m.	1,200	6,000
(c) Stationery & Office Contingencies (including cost on Riksha Pullers)	3,200	16,000
	Rs. 26,000	Rs.1,30,000

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-: 6 :-

Non-Recurring Expenditure

(a) Furniture and Equipments	Rs. 5,000
(b) Books and Teaching Materials	Rs. 5,000
	<hr/>
	Rs.10,000

(C) Building Construction Programmes

(1) Building for post-graduate College for Humanities	Rs.7,00,000
(2) Hostel for Boys	Rs.4,00,000
(3) Proctor's Hall	Rs. 16,000
(4) Extension for Administrative Block	Rs.3,00,000
(5) Teachers' Quarters	Rs.3,00,000
(6) Class IV Servants Quarters	Rs. 75,000
(7) Installation of Tube Well	Rs. 24,000
(8) Campus Development	Rs.1,00,000
(9) Cycle Stand & Garrages	Rs. 20,000
(10) Gymnasium	Rs. 60,000
(11) Building for N.C.C. Battalion	Rs. 60,000
(12) School for Mentally retarded Children	Rs. 15,000
	<hr/>
	Rs. 20,70,000

Summary Chart

(A) Continuation Programmes:

	<u>Recurring Charges Per Year</u>	<u>Non-Recurring Charges</u>
(1) On Addl. Teaching Staff	Rs.3,46,000	-
(2) Development Scheme for Library.	Rs. 78,000	Rs.3,00,000
(3) Development of Kashi Vidyapith Press	Rs. 12,500	Rs. 50,000
	<hr/>	
	Rs.4,36,500	Rs.3,50,000

....7/-

(B) Extension Programmes:

	<u>Recurring Charges Per Year</u>	<u>Non-Recurring Charges</u>
(1) Provision for Teaching of Geography & Maths.	Rs. 20,700	Rs. 15,000
(2) Diploma Courses in Tamil Russian and German Languages.	Rs. 10,800	Rs. 5,000
(3) Basic Training College and Model H.S. School	Rs. 1,04,100	Rs. 1,00,000
(4) School for Mentally and Emotionally Handicapped Children	Rs. 26,000	Rs. 10,000
	<u>Rs. 1,61,600</u>	<u>Rs. 1,30,000</u>

(C) Building Construction Programmes:-

Rs. 20,70,000

Total of (A), (B) & (C)
for 5 years .

5,98,100
x 5

Rs. 29,90,500 Rs. 25,50,000

Total for the Plan Period:

(1) Recurring Charges	Rs. 29,90,500
(2) Non-Recurring Charges	Rs. 25,50,000
	<u>Rs. 55,40,500</u>

Courses of Study in English at various
Examinations

VISHARAD (HIGH SCHOOL)

There will be two question papers of fifty marks each.

FIRST PAPER (Text Books and Grammar)

(A) Question based on the text book 10 (Answer in English)

Explanation of any portion
of the text book 6 " " "

Word meanings (in Hindi or
English) and use in sentences 6

Explanations (in Hindi or
English) of Prose portions 4

Explanations of portions of
poetry (in Hindi or English) 4

(B) Grammar:

(i) Filling in gaps in sentences,
involving tenses, Voices and
prepositions etc. 4

(ii) Transformation of sentences
including synthesis change
of words, phrases and clauses 4

(iii) Parsing

(iv) Analysis

(v) Narration

For detailed study -

GROUP A - (One of the following books).

1. New High School Prose - S.K. Narain & Smt. S.R. Bafshi
Sahitya Kutir, Lucknow.

2. Prism of English Prose - by N.K. Agarwal and R. Agarwal
Lahar Prakashan, Allahabad.

For General Study -

GROUP B - (One of the following books).

1. Foot falls of the great - by K.P. Lal
Indian Press Ltd., Allahabad.

2. Fighters of Freedom
(one all fronts) - by S.R. Misra,
Gautam Bros., Kanpur

GROUP C - (One of the following books)

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-: 2 :-

1. Blossoms of English Poetry - by B.N. Kar,
G.R. Bhargava and Sons,
Chandausi.
2. High School Verse - by S.P. Mathur,
Educational Publishing
House, Varanasi.

SECOND PAPER (Translation, Composition and Unseen)

- | | |
|--|----|
| (i) Translation into English | 15 |
| (ii) A simple essay | 15 |
| (iii) Simple questions on an easy
unseen passage. | 10 |
| (iv) Questions to test the ability
to spell words correctly | 6 |
| (v) Punctuation. | 4 |

ANTARIM (Intermediate)

There shall be three papers. One paper of three hours duration carrying 30 marks in the prescribed prose course, and a Second Paper of three hours duration carrying 30 marks in the prescribed Poetry course. In each of these papers there will be one question on unseen passages. The prose paper will contain one or more prose unseens and the Poetry paper will contain one or more Poetical unseens. Questions on Elementary Prosody are not to be set.

A third paper of three hours duration carrying 40 marks will include -

- (i) Translation from Hindi into English marks 15
- (ii) Essay on any subject of general interest -15
- (iii) Grammar consisting of -
 - (a) Idioms
 - (b) Figures of Speech (Metaphor, Simile, Hyperbole, Onomatopoeia, Personification, Apostrophe and Oxymoron)
 - (c) Direct and Indirect narration, Transformation of sentences, Synthesis, Analysis and Syntax

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-: 3 :-

- Note - (1) In the case of books prescribed for detailed study candidates will be expected to show a close familiarity with the text, including meaning of words, construction of sentences, Historical and other allusions, as well as knowledge and understanding of the subject-matter. They should be able to indicate contexts and to Paraphrase and explain any difficult passage in simple and correct English.
- (2) In the case of books prescribed for non-detailed study a detailed knowledge of the text will not be required, but candidates will be expected to show that they have read the course with intelligence and some appreciation.

Books prescribed:-

Prose:- (a) for detailed study-

- (i) Golden Treasury of English Prose - T. Bhattacharya, Bharatiya Bhawan, Varanasi.
- (ii) Path of Progress - A.L. Nagar, Provincial Book Depot, Allahabad.

Prose:- (b) for non-detailed study -

- (i) Four short Plays of Today - N.K. Agrawal, Prakash Prakashan, Agra.

Poetry:- for detailed study -

- (i) Savitri - J.P. Sinha and T.N. Mathur, Students Publishers, Meerut.
- (ii) Petals of Poetry - Devendra Singh, Bharat Prakashan Mandir, Agra.

Book recommended for the Third Paper :-

An Ideal Guide to General English - Prof. B.L. Sahney

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SHASTRI (B.A.) PREVIOUS - ENGLISH COMPULSORY

There shall be one paper carrying 100 marks.

- I. English Essays of Today (O.U.P.) for detailed study 40
(20 marks for explanation)
(20 marks for questions based on text)

The following essays:-

1. The Onion Eater
2. The Onion Eater
3. The Onion Eater
4. On the pleasures of no Longer Being Very Young
5. The Author to His Reader
6. Quality
7. Refuge from Nightmare
8. About Bathrooms
9. Superstitions
10. How to live long
11. The Windmill
12. The Money Box
13. The popular Conception of a poet
14. Humane Education
15. Beauty and the Beast
16. Lord Chesterfield's Letters to His son

II. Précis

III. Expansion of Ideas.

IV. Idioms and Correction of Errors.

Books recommended for both Shastri Part One and Two

- (a) Hints on the Study of English - Row & Webbe.
- (b) A Revision Course in English - L. Oliphant.
- (c) Oxford Progressive English for Adult - Leamess Book II
- (d) Oxford Progressive English for Adult - Leamess Book III.

SHASTRI (B.A.) FINAL

There shall be one paper carrying 100 marks

1. The Impact of Science on Society - B. Russel (for detailed study) 40 marks
20 marks - Explanation
20 marks - Questions based on text.
2. Précis 20 marks
3. Idioms and Correction of Errors 10 marks
4. An Essay of about 500 words 30 marks

Books recommended:-

(The same as prescribed in Shastri Part I)

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ANNEXURE - IV

Financial implications of the recommendations of the Visiting Committee.

....

Departments	Total estimated cost		UGC share	
	R	NR	R	NR
1	2	3	4	5

(Fig. in Rs.)

Deptt. of Social Work:

Staff:				
Readers - 2	66,000		33,000	
Research Asstt - 1 (Rs.250/-p.m.)	9,000		4,500	
Books & Journals		10,000		10,000
Equipment		10,000		6,666
Motor Bus		60,000		40,000
Total:	75,000	80,000	37,500	56,666

Deptt. of Sociology:

Staff:				
Professor - 1	45,000		22,500	
Books & Journals		10,000		10,000
Total:	45,000	10,000	22,500	10,000

Deptt. of English:

Staff:				
Professor - 1	45,000		22,500	
Reader - 1	33,000		16,500	
Books & Journals		10,000		10,000
Total:	78,000	10,000	39,000	10,000

....2/-

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1	2	3	4	5
<u>Deptt. of Hindi:</u>				
Staff:				
Readers - 2	66,000		33,000	
Books & Journals		10,000		10,000
Equipment		10,000		6,666
Total:	66,000	20,000	33,000	16,666
<u>Deptt. of Economics:</u>				
Staff:				
Professor - 1	45,000		22,500	
Reader - 1	33,000		16,500	
Books & Journals		10,000		10,000
Total:	78,000	10,000	39,000	10,000
<u>Deptt. of History:</u>				
Staff:				
Reader - 1	33,000		16,500	
Lecturer - 1	18,000		9,000	
Books & Journals		10,000		10,000
Total:	51,000	10,000	25,500	10,000
Postgraduate Arts Block		5,00,000		5,00,000
Publication of Research Material		30,000		30,000
<u>University Library</u>				
Staff:				
Professional Asstt. - 1 (Rs.250-400)	12,600		6,300	
Cataloguer - 1 (Rs.250-400)	12,600		6,300	
Counter Asstts - 2 (Rs.110-180)	10,800		5,400	
Books & Journals		1,00,000		1,00,000
Total:	36,000	1,00,000	18,000	1,00,000

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--: 3 :-

1	2	3	4	5
<u>General Schemes:</u>				
Improvement of Printing Press		30,000		20,000
Cycle Shed		25,000		12,500
Women's Hostel for 50 students		3,00,000		2,25,000
24 Class IV staff quarters		1,50,000		75,000
	Total:	5,05,000		3,32,500
Grand Total:	4,29,000	12,75,000	2,14,500	10,75,832

U.G.C. Share :-

Non-Recurring : Rs. 10,75,832

Recurring : Rs. 2,14,500

Total : Rs. 12,90,332

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Confidential

UNIVERSITY GRANTS COMMISSION

Date:
Time:
Place:

Meeting:
6th March, 1968
10 A.M.
UGC Building,
New Delhi.

AGENDA (Contd.)

- Item No.29: To consider a proposal from the State Government of Kerala for the establishment of two new universities at Calicut and Ernakulam p. 106-118
- Item No.30: To receive a note on the Audit and Inspection Notes on the accounts of the Lucknow University. p. 119-122
- Item No.31: To consider further the reference from the Government of India regarding employment opportunities for Muslims in Government service. p. 123-125
- Item No.32: To consider the report of the Committee on Military Science and the views of the Ministry of Defence on the report. p. 126-129
- Item No.33: To consider a proposal from the Banaras Hindu University for introduction of a Health Service Scheme for the employees and students residing in the University campus. p. 130-132
- Item No.34: To consider the proposal of the Panjab University regarding construction of an Extension Library at Ludhiana. p. 133
- Item No.35: To consider the proposal from the Patna University for assistance for construction of a Jubilee Hall-cum-Auditorium out of the special grant of Rs ten lakhs sanctioned on the occasion of the Golden Jubilee Celebrations of the University. p. 134
- Item No.36: To consider a note on the Operational Work Plan of the proposed Programme Agreement to be signed between the Government of India and the United States Agency for International Development. p. 135-136

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated 6th March 1968

Item No. 29: To consider a proposal from the State Government of Kerala for the establishment of two new Universities at Calicut and Ernakulam.

The University Grants Commission at its meeting held on 7th February, 1968 considered a proposal from the State Government of Kerala for the establishment of two new Universities at Calicut and Ernakulam. A copy of the note placed before the Commission is enclosed (Appendix I). The State Government had proposed that if the Government of India were not agreeable to the establishment of two more universities at Calicut and Ernakulam in the Kerala State, the State Government would be satisfied if the Government of India accepted in principle the establishment of two more Universities in the State and agreed to the setting up of a University at Calicut from the next year. The Commission agreed that the proposal of the State Government may be referred to the Standing Committee on 'New Universities'.

The State Government have now forwarded a copy of the report of the Committee (attached as Appendix II) appointed by them to advise on the formation of new universities in the State. The Committee has proposed an affiliating-cum-teaching University at Calicut and a University of federal type at Ernakulam. The State Education Minister has written to the Union Education Minister and met the Chairman, U.G.C. recently in this regard. An extract from his letter to the Union Education Minister is reproduced below:

"A Committee was constituted by this Government in November, 1967 with Professor Samuel Mathai Vice-Chancellor, Kerala University as Chairman to examine the question of formation of new Universities in Kerala in all its aspects and to advise Government on the question. The Committee has considered the question at length and has submitted its report to Government on 6.2.1968. A copy of the report is enclosed. The recommendations of the Committee are unanimous. The Committee came to the conclusion that two Universities could be established in the State. It has proposed an affiliating-cum-teaching university at Calicut and a University of the Federal type at Thrikkakara (Ernakulam). The financial involvement for the formation of two Universities have also been considered by the Committee. The total outlay required for capital constructions for the formation of two Universities is estimated to about Rs.400 lakhs. Apart from the capital investment, recurring grant to the tune of about Rs.100 lakhs per annum has to be given by the Government as well as the University Grants Commission for the running of the three Universities of the State if the formation of two new Universities now proposed by the Committee is conceded. It appears that it would be very difficult for the Government to undertake this financial commitment in the present context of the financial position of the State. However, Government feel that to satisfy the needs of the northern part of the State which has been neglected to some extent in the matter of development purposes, it would be better to start the new University at the north with its centre at Calicut as proposed by the Committee. The financial commitment in respect of this commitment can be accommodated in the ensuing plan years with out resources and with substantial aid from Government of India and the University Grants Commission. In the circumstances this Government would urge the Government of India to accord sanction for the formation of one University in the north with Calicut as Centre and accept in principle the need to have two universities in the State in the years to come. I hope this proposal would find favour with the Government of India and there would be no difficulty in

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sanctioning one University at least for the State immediately and that to be started with the commencement of the next academic year. I am to request you to kindly give special attention to this matter and see that the necessary orders of the Government of India are issued at a very early date."

The State Education Minister has also indicated that it would be very difficult for the State Government to undertake the financial commitment, in the present context of the financial position of the State for the establishment of two Universities. It has therefore been suggested that it would be better to start a University at Calicut as proposed by the Committee and that the Government of India may agree, in principle, to the need for having two new universities in the State in the years to come.

The matter is placed before the Commission for Consideration.

E.O.(CD)/J.S.(A)

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To consider the proposal from the State Government of Kerala for the establishment of two new universities at Calicut and Ernakulam.

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The University Grants Commission at its meeting held on 7th November, 1962 had considered a proposal from the State Government of Kerala, received through the Ministry of Education, regarding setting up of two or three new Universities in Kerala. The Commission referred the proposal to its Committee on 'Establishment of New Universities' and subsequently, at its meeting held on 7th April, 1965, accepted the proposal of the State Government of Kerala for the development of two Postgraduate Centres which would later be developed into independent universities. The Commission, however, felt that the State Government may for the time being, make a beginning with one centre. The University of Kerala, however, set up two Postgraduate Centres at Calicut and Ernakulam, and both the centres are receiving financial assistance for their development schemes from the Commission.

The State Government have now asked for the approval of the Government of India for the establishment of two more universities at Calicut and Ernakulam. They have also intimated that if the Government of India are not agreeable to this, the State Government would be satisfied if the Government of India accepted in principle the establishment of two more universities in the State and agreed to the setting up of a University at Calicut, from next year. An extract from the letter of State Education Minister to Union Education Minister is reproduced below:

" I am writing this to impress upon you the need for establishing two more Universities in this State and to request you kindly to accord the necessary approval for the same at a very early date.

The University of Travancore, established in 1937, after the reorganisation of the States and the formation of Kerala State, was converted into the University of Kerala in 1957. As you are well aware Kerala is one of the most advanced States in India in the matter of education. The following figures will give an idea of the phenomenal growth of educational facilities in Kerala in the last decade:-

	<u>No. of Institutions and enrolment</u>	
	<u>In 1957</u>	<u>In 1967</u>
High Schools	631	1,275
Enrolment	1.7 lakhs	6.8 lakhs
Colleges	69	149
Enrolment	.31 lakh	1.4 lakhs
University Departments of Research & Study	7	25

It is clear from the above figures that it is not possible for a single University to efficiently cater to the needs of the rapidly expanding studies of higher education in this State. There is also urgent need to expand the post-graduate and research activities.

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As there was concentration of facilities for advanced studies at the southern part of Kerala it was decided to start two University centres at Ernakulam and Calicut. These centres have developed considerably.

To cater to the needs of 1.4 lakh students in Institutions of Higher education, Kerala has only one University. This has created many difficulties and problems. Government have considered the question in detail and have taken the following decision: -

"The principle of having two more Universities in the State at Ernakulam and Calicut is accepted".

Government have constituted a Committee to examine the question of establishment of two more Universities with centres at Calicut and Ernakulam and submit proposals in this behalf.

Proposals for starting two more Universities have been sent by the Kerala University as early as 1962 and the State Government have also moved the Government of India in the matter. It may not be out of place to recall that the Education Commission, in its report, has recommended the starting of one more University in Kerala.

The University centres at Ernakulam and Calicut were started with the idea of ultimately converting them as separate Universities after developing them. The University centre at Ernakulam has an area of 170 acres and several buildings have already come up. An amount of Rs.22 lakhs has already been spent in constructions there. For the Calicut centre an area of 500 acres have been acquired. Plans for the buildings have been finalised. The work will be taken up this year itself. The University is now having 4 Departments of Study and Research at Calicut in the affiliated colleges. Two more departments have also been sanctioned by the Visiting Committee of the University Grants Commission. In the circumstances, it may not be difficult to start two Universities at these centres in the immediate future.

In the Fourth Plan proposals Government have earmarked tentatively Rs.250 lakhs for the development of University. This amount together with the amount of Rs.132 lakhs sanctioned by the University Grants Commission for the 3 centres could very well be utilised for the new Universities to be started. Hence there would not be much financial difficulty in the matter of starting the new Universities.

However, if the Government of India have any very serious objection in giving sanction for two more Universities, while the Education Commission has recommended only one, this Government would be satisfied if the Government of India would accept in principle, the formation of two more Universities in this State, the University at Calicut being started next year itself.

The starting of a new University at Calicut is suggested because Malabar is backward in education in many respects. It is necessary for the State to start new activities in the backward area so that it may come up. There is also some imbalance in the distribution of institutions between northern and southern districts of the State. The formation of the new University in the northern region would, to some extent, compensate for this also.

During Dr. Kothari's visit to this State, this idea was put to him and he was generally in agreement with the same.

In the circumstances, I am to request that the Government of India may kindly accept in principle the formation of two more Universities for this State at Calicut and Ernakulam and to begin with accord sanction to start a new University at Calicut."

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The matter is placed before the Commission. As in the case of other such proposals, the proposal of the State Government of Kerala has been referred to the Standing Committee on the 'Establishment of New Universities!'

E.O(CD)/J.S(A)

I. Appointment of the Committee & Sitzings

The Government of Kerala appointed in November, 1967, a Committee with the following members to examine the desirability, feasibility etc. of starting more Universities in the State in all its aspects and to advise Government on the location, pattern and jurisdiction of the new Universities to be set up in the present context of our fast developing society: -

- | | |
|---|-------------|
| (1) Prof. Samuel Mathai,
Vice-Chancellor, Kerala University. | - Chairman |
| (2) Shri F.P. Hassan Koya, Calicut | - Member |
| (3) Shri K.P. Kesava Menon, Calicut | " |
| (4) Mayor, Corporation of Calicut | " |
| (5) Prof. Joseph Mundassery, Trichur | " |
| (6) Shri K.C. Chacko, Director of Technical
Education, Kerala | " |
| (7) Shri C. Achutha Menon, Trivandrum | " |
| (8) Shri L.M. Pylee, Ernakulam | " |
| (9) Shri R. Saṅkar, Trivandrum | " |
| (10) Shri Kalathil Velayudhan Nair, Ernakulam | " |
| (11) Prof. A.N. Karunakaran Pillai, Sree
Sankara College, Kalady | " |
| (12) Shri Kayikkara Shamsuddin, Quilon | " |
| (13) Shri P.K. Nayar, Trivandrum | " |
| (14) Shri P. Goinda Pillai, MLA., Perumhavor | " |
| (15) Shri B.V. Abdulla Koya, M.P., Calicut | " |
| (16) Shri V. Khalid, Advocate, Tellicherry | " |
| (17) Fr. Joseph Vadakkan, Trichur | " |
| (18) Dr. Abdul Gafoor, Calicut | " |
| (19) Principal, Government Brennen College,
Tellicherry. | " |
| (20) Principal, Malabar Christian College, Calicut | " |
| (21) Principal, Farook College, Feroke. | " |
| (22) Principal, Union Christian College, Alwaye | " |
| (23) Special Officer, Cochin Corporation, Cochin | " |
| (24) Shri K.C. Ramakrishna Pillai, Joint
Secretary(Education) | - Secretary |

On 21-12-1967, Shri Mohammed Koya, Education Minister inaugurated the first meeting. He pointed out that the Kerala University has grown to such an extent that it is not possible for it to efficiently cater to the needs of the large number of colleges and students under it. The University Centres at Ernakulam and Calicut were started with the ultimate aim of converting them to new universities. Representations have been received for the formation of new universities at Calicut and Ernakulam and Government having considered all aspects of the question felt that it is desirable to start two new universities at the existing University Centres, viz., Calicut and Ernakulam. Therefore Government constituted this Committee to advise them on the question. It was also pointed out by the Minister that the new universities may aim at achieving higher quality and standard in post-graduate education as desired by University Grants Commission and the Education Commission. It was suggested that the Committee may consider the pattern of new universities to be set up, their territorial jurisdiction and other details. The backwardness of Malabar and the prevailing feeling that that area is neglected in the matter of development were also specially referred to. The Committee was requested to submit proposals to Government at a very early date.

In all, the Committee held four sittings on 21-12-1967; 16-1-1968; 25-1-1968 and 6-2-1968. The second meeting was held at Ernakulam and the third at Calicut. The members thus had occasion to visit the existing University Centres at Ernakulam and the site acquired for the Centre at Calicut.

II. Types of Universities

The Universities in India can be broadly divided into two types. One is the "affiliating" type. The oldest universities set up under the Acts of 1857 and called Presidency Universities, were of the affiliating type. These first Universities were mainly examining bodies; their function was that of prescribing syllabuses and holding examinations for the students in the affiliated colleges. But during the last few years these Universities have developed post-graduate teaching departments and research centres. They now function as teaching and examining Universities. The teaching part is conducted generally at the headquarters or at one or two centres. They further exercise control in varying measure over the larger number of affiliated colleges scattered over wide areas. The University of Kerala is of the affiliating type conducting examinations for all while undertaking teaching and research to a limited extent under its direct control.

The second type is a "Unitary" or a "Federal" University. Both Unitary and Federal universities are restricted to single towns or their immediate neighbourhood. In a Unitary University almost the entire teaching is done by the university in its own campus and as far as possible the students reside on the campus. The Federal type is a variation of this, also more or less restricted to a town and its neighbourhood. There may be a number of colleges which work under the direction of, and co-operation with, the university as constituent members. Allahabad, Annamalai, Banaras come under the Unitary type of universities. Delhi is an example of a Federal University.

There is another pattern which is also worthy of consideration in this context. This may be called the University of California pattern. The University of California is a State University. Its teaching and research work is carried on in 8 or 9 separate campuses; each campus is headed by a 'Chancellor' and is largely autonomous. Each unit provides courses and undertakes research according to its own capacity and facilities. But the degrees are conferred in the name of University of California. There is a President for the whole University, and a common Board of Governors.

III. New Universities

The Education Commission is not against starting of new Universities in the Fourth Plan. It has been pointed out that the establishment of new Universities is inescapable. It has also agreed that the demand of the Government of Kerala for additional universities is justifiable. In establishing new universities the Commission has emphasised that :

- (1) Establishment of a new university can be justified only if it leads to a substantial improvement in standards and in the quantum and level of research.
- (2) Co-operative effort by post-graduate centres to provide facilities for post-graduate education should be developed as a first step towards establishment of a university. A new university should not ordinarily be established in places where university centres have not been in operation for some time.
- (3) Good university organisation is one in which a university has a strong core of teaching departments combined with about 30 affiliated colleges in close proximity.

IV. The Kerala University

The Kerala University was formed after the reorganisation of the States in 1956 by an enactment of the Legislature. The colleges

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under the Travancore University and those situated in the Malabar districts were brought under the Kerala University.

Kerala is the most advanced State in India in the matter of secondary education. At the formation of Kerala University the number of colleges under the University was only 69 with a total enrolment of 31,000 students. By 1967 the number of colleges under the University has come up to 117 and the total enrolment of students to 1,40,000. (This includes the pre-degree course students, whose number is about 42,000). The University now has 25 departments of research and study as against seven in 1957. It is evident from the above figures that the University has grown very rapidly in the last few years and shows signs of growing further. This places a heavy burden on the University. The creation of one or more new universities will help to reduce this burden. The chances of providing improved facilities for post-graduate studies and research in places other than Trivandrum would be better if universities based on other cities are created.

A map is appended (Appendix A*) showing the distribution of colleges in the various districts. A further appendix (Appendix B) gives the approximate number of students in the various colleges. These provide the basis on which the affiliating functions of Kerala University may be divided among two or three universities, and the general suitability of the existing centres for being made the headquarters of full-fledged universities. It is not desirable or sufficient to geographically delimit the territorial jurisdiction and declare them as new universities as this will not satisfy the objective set forth for the formation of new universities. The facts set forth below may provide the basis on which the pattern of new universities in the State may be determined:

V. The Existing Centres

The University Centre at Trikkakara (Ernakulam) has an area of 175 acres and several buildings have been completed there at a cost of about Rs.25 lakhs. The area in and around Ernakulam is highly developed educationally and industrially and there are numerous educational institutions.

The University Centre at Calicut has been started with 4 departments of study and research located in the affiliated colleges. A few more departments have been sanctioned recently. Steps have already been taken for the acquisition of about 500 acres of land for the campus. The University is already in possession of a portion of this land and the rest will be acquired soon. The plans for the construction of buildings are ready and construction work is proposed to be taken up shortly.

VI. Proposals Discussed

(a) An affiliating-cum-teaching University with Calicut as headquarters may be set up with jurisdiction extending over about the 50 colleges in the northern districts of the State, viz. Cannanore, Calicut, Palghat and Trichur. Another university with Ernakulam as headquarters and affiliating the 55 colleges in Ernakulam, Kottayam and Alleppey districts may be formed. The remaining 44 colleges of the Quilon and Trivandrum districts may remain affiliated to the Kerala University.

(b) The Education Commission has emphasised that the establishment of new university can be justified only if it leads to a substantial improvement in standard and in the output and level of research. The University Grants Commission has persistently been insisting that the aim of the new universities should be to raise the standard of teaching especially at the post-graduate level. Hence establishing two more affiliating and teaching universities may not satisfy the recommendation.

* Not enclosed.

of the Education Commission as well as the objective aimed by the University Grants Commission. Hence considering the extreme backwardness in higher education in the northern regions of the State and also of the fact that that region deserves preference in the matter of setting up new institutions in the State, a new university at Calicut be established at the earliest possible opportunity providing facilities for the affiliation of about 50 colleges in the districts of Palghat, Cannanore and Trichur. The University departments now sanctioned for the University Centre at Calicut could be set up immediately by putting up suitable buildings for conducting post-graduate courses and may serve as a residential teaching centre. The few colleges in and around the city of Calicut may be declared constituent members of the University, the other colleges having the status of affiliated colleges. A university office to start with can be housed in a suitable building which may be provided by Government. Urgent steps may be taken by Government along these lines for the installation of a separate university in the north with headquarters at Calicut.

✓ in the newly acquired campus which should be developed

(c) The departments of study at the University Centre at Trikkakara may be reorganised under the Kerala University as an autonomous unit with considerable freedom in regulating courses, conducting research, awarding degrees etc. As particular emphasis is desirable for the development of post-graduate education the Centre should give more attention to post-graduate studies and research. This Centre should deal with all higher educational activities in the industrial complex now developing in the geographical unit designated as Greater Cochin and in Alwaye.

This Centre could develop special emphasis on the service aspects of education and expand its extension activities, and should provide the knowhow and opportunities for developing the almost unlimited resources of the State in the forests, in the paddy fields and in the adjoining sea. The colleges within the Cochin-Alwaye area may be constituent units of the autonomous body.

(d) The rest of the colleges in the districts of Ernakulam, Kottayam, Alleppey, Quilon and Trivandrum may continue to be affiliated to the University of Kerala and the Kerala University will continue to function as at present as an affiliating-and-teaching university, developing the Karyavattom campus as a complete post-graduate & research centre.

In order to minimise the routine work of the Kerala University a separate office of the Kerala University with a nucleus of senior officers with reasonable executive powers could be established at Ernakulam. The size of the office should be fixed with respect to the affiliated colleges in the entire districts of Ernakulam, Kottayam and Alleppey. This pattern could be extended to other Centres in due course. There is plenty of scope to start smaller centres at Quilon, Kottayam and Trichur where there are clusters of educational institutions. Later on, these may also be declared as autonomous centres with freedom to arrange their own courses, conferment of degrees etc. These autonomous units will all be under the overall control of the parent body. The Committee feels that this line of development of university education in Kerala deserves consideration when the question of new universities and reorganisation is being discussed.

VII. Finances

The annual cost for running the Kerala University comes to about Rs. 118 lakhs. The revenue for this expenditure is derived from grants from the State and Central Governments and from the fees collected by the University for examinations etc. The income from Examination fees and fees from Departments comes to about Rs. 72 lakhs per annum. For the existing departments at Ernakulam and Calicut an average of 5.4 lakhs and 3.2 lakhs respectively are required per annum.

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The probable minimum annual cost in the initial stage for starting universities at Calicut and Ernakulam is given in Appendix C. It may be seen that about Rs.30 to 35 lakhs is required for a new university. If two more universities are to be started in the State in addition to the Kerala University, the annual expenditure would be of the order of about Rs.60 to 70 lakhs. The fee income can be only about Rs.72 lakhs for the three universities. Government have to finance the three universities by payment of grant for maintenance purposes at least to the tune of Rs.50 lakhs per annum. The estimated annual cost of staff for unning a university headquarter is Rs.4 lakhs as per details shown in Appendix D. The capital required for putting up the headquarters and the completion of the three centres may come to Rs.400 lakhs. Government have to give grant (plan) for this phased over a period of 3 to 4 years.

VIII. Final Recommendations

The Committee came to the conclusion that two universities could be established:

(1) A university be established immediately with headquarters at Calicut. The site acquired may be developed early as a residential campus. The Departments of Study under the direct control of the university will all be set up on this campus. All the colleges in the Cannanore, Calicut, Palghat and Trichur districts be affiliated to this university. The relationship of the existing colleges in and around the city of Calicut to the new university may be on a special basis. They may be treated as constituent colleges.

(2) A university of the Federal type be established at Trikkakara including all the institutions in the Greater Cochin-Always area. The university departments at Trikkakara will provide facilities for research etc. and a few other well-developed colleges in the area may be declared as constituent members of the university and the other institutions in the area affiliated to it for the present. It will thus be a university of the Federal type.

(3) If this pattern for Ernakulam is accepted all the remaining colleges in the Ernakulam district will remain affiliated to the Kerala University.

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APPENDIX B

LIST OF COLLEGES IN KERALA 1967-68

Abbreviations

AS	Arts & Science College	PG	Post-graduate College
W	Women's College	T	Training College
E	Engineering College	AY	Ayurveda College
M	Medical College	V	Veterinary College
J	Junior College	S	Sanskrit College
A	Arabic College	L	Law College
EV	Colleges conducting evening courses,	Ag	Agricultural College

CANNANORE

Strength 1967-68

1.	Mahajana Sanskrit College, Mirohal, Kasargod.	S	50
2.	Government College, Kasargod.	AS	943
3.	Payyannur College, Payyannur.	J	859
4.	Sir Syed College, Taliparamba	J	330
5.	Pazhassi Raja N.S.S.College, Mattanur	AS	971
6.	Sree Narayana College, Cannanore.	AS	1764
7.	Nirmalagiri College, Kuthuparamba	AS	946
8.	Govt. Training College, Tellicherry	T	120
9.	Govt. Brennen College, Tellicherry.	AS PG	1559

KOZHIKODE

10.	Govt. College, Madappally, Badagara.	AS	1255
11.	St. Mary's College, Sultan's Battery.	J	491
12.	Govt. Training College, Calicut.	T	150
13.	Medical College, Calicut.	M.	952
14.	St. Joseph's College, Devagiri, Calicut.	AS PG	1246
15.	Govt. Arts & Science College, Calicut	AS	805
16.	Providence Women's College, Calicut.	WPG	926
17.	Regional Engineering College, Calicut.	E	879
18.	Malabar Christian College, Calicut.	AS PG	1135
19.	Guruvayoorappan College, Calicut.	AS	1471
20.	Sullamussalam Arabic College, Areacode.	A	63
21.	Rouzathul Uloom Arabic College, Faroke.	A	133
22.	Madeenathul Uloom Arabic College, Pulikal, Faroke.	A	27
23.	Farook College, Faroke, Calicut.	As PG	1565
24.	Farook Training College, Faroke.	T	120
25.	Mampad College, Mampad, Manjeri.	J	540
26.	N.S.S. College, Manjeri.	J	646

PALGHAT

27.	M.E.S. Kalladi College, Mannarghat	J	294
28.	Govt. Sanskrit College, Pattambi	ASS	383
29.	N.S.S. Training College, Ottappalam	T	120
30.	N.S.S. College Ottappalam	AS PG	1227
31.	N.S.S. College of Engineering, Palghat	E	561
32.	Govt. Victoria College, Palghat	AS PG	1964
33.	Mercy College, Palghat	ASW	693
34.	Govt. College, Chittoor.	AS	1446
35.	N.S.S. College, Nammara	J	323

TRICHUR

36.	Sree Vyasa College, Wadakkancheri	J	300
37.	Sahitya Deepika Sanskrit College, Pavaratty.	S	200

38.	Little Flo College, Guruvayug.	ASW	1077
39.	Sree Krishna College, Guruvayur.	AS	796
40.	Sree Kerala Varma College, Trichur.	AS	1757
41.	St. Thomas College, Trichur.	AS	2232
42.	Govt. Training College, Trichur	T	120
43.	College of Engineering, Trichur.	E	805
44.	St. Mary's College, Trichur	ASW PG	1056
45.	Vimala College, Trichur	JW	1049
46.	Kerala Veterinary College, & Research Institute, Trichur.	VPG	228
47.	St. Joseph's College, Irinjalakuda.	ASW	885
48.	Christ College, Irinjalakuda.	ASPG	1780
49.	Sree Narayana College, Nattika	J	490
50.	Kodungallur Kunhukuttan Thampuran Memorial College, Irinjalakuda.	J	879

ERNAKULAM

51.	Sree Sankara College, Kalady.	AS PG	1653
52.	Union Christian College, Alwaye.	AS PG	1109
53.	St. Xavier's College for Women, Alwaye.	JW	591
54.	S.N.M. Training College, Moothakunnam	T	120
55.	S.N.M. Junior College, Maliankara.	J	661
56.	Sree Sankara Vidyapeedhom Junior College, Perumbavoor	J	75
57.	Mar Athanasius College, Kothamangalam.	AS PG	1554
58.	Mar Athanasius College of Engineering, Kathamangalam.	E	575
59.	Nirmala College, Muvattupuzha.	AS PG	1753
60.	Newman College, Thodupuzha.	AS	1227
61.	St. Peter's College, Kolenocherry.	AS	1158
62.	Bharata Mata College, Trikkakara.	J	752
63.	St. Paul's College, Kalamassery.	J	657
64.	St. Joseph's Training College, Ernakulam	TW	100
65.	St. Albert's College, Ernakulam.	AS PG	1512
66.	St. Teresa's College, Ernakulam.	ASW PG	1833
67.	Law College, Ernakulam.	LPG Ev.	590
68.	Maharaja's College, Ernakulam.	ASPG Ev.	2363
69.	Sacred Heart College, Thevara.	AS PG	1733
70.	Cochin College, Cochin 2	J	243
71.	Govt. Sanskrit College, Trippunithura.	S	164

KOTTAYAM

72.	Devaswom Board College, Thalayolaparampu	J	627
73.	Deva Matha College, Kuravilangad	J	770
74.	Bishop Kurialachery College for Women, Athirampuzha.	JW	362
75.	B.C.M. College, Kottayam.	ASW	1699
76.	Baselius College, Kottayam	AS	1153
77.	C.M.S. College, Kottayam.	ASPG Ev.	2204
78.	Mount Carmel Training College, Kottayam.	TW	120
79.	Medical College, Kottayam.	M	354
80.	St. Joseph's Training College, Mannanam	T	120
81.	Kuriakose Elias College, Mannanam.	AS	740
82.	Sree Vidyadhiraja N.S.S. College, Vazhoor.	J	568
83.	St. Stephen's College, Uzhavoor.	J	689
84.	Bishop Abraham Memorial College, Mallappally.	J	114
85.	St. Thomas Training College, Palai.	T	120
86.	St. Thomas College, Palai.	AS PG	2374
87.	Alphonsa College, Palai.	ASW	1186
88.	St. George's College, Erattupetta.	J	510
89.	St. Dominic's College, Kanjirappally.	J	886
90.	Nural Huda Arabic College, Kanjirappally.	A	45
91.	Assumption College, Changanacherry.	ASW	1855
92.	St. Perchman's College, Changanacherry	AS PG	2305
93.	N.S.S. Hindu College, Perunna	AS PG	2305
94.	N.S.S. Training College, Changanacherry.	T	150

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ALLEPPEY.

95.	N.S.S. College, Shertalai.	J	596
96.	St. Michel's College, Shertalai.	J	375
97.	S.N. College, Shertalai.	J	789
98.	St. Joseph's College for Women, Alleppey.	ASW	916
99.	Sanatana Dharma College, Alleppey.	AS PG	2104
100.	T.D.M. College, Alleppey.	M	258
101.	St. Aloysius College, Idathua.	J	556
102.	Titus II Teacher's College, Thiruvalla.	T	120
103.	Mathoma College, Thiruvalla	AS PG	1857
104.	Christian College, Chengannur.	AS	965
105.	NSS Training College, Pandalam.	T	120
106.	N.S.S. College, Pandalam.	AS PG	2288
107.	T.K. Madhavan Memorial College, Nangiarkulangara.	J	876
108.	Milade Sheriff Memorial College, Kayamkulam.	J	774
109.	Bishop Moore College, Mavelikara.	AS	1211
110.	Pett Memorial Training College, Mavelikara.	T	120

QUILON.

111.	St. Thomas College, Ranni.	J	724
112.	St. Thomas College, Kozhencherry.	AS	1611
113.	Catholicate College, Pathanamthitta.	AS PG	2169
114.	Devaswom Board College, Sasthamcottah.	AS	1127
115.	St. Gregorios College, Kottarakkara.	J	925
116.	T.K.M. Engineering College, Quilon.	E	884
117.	T.K.M. College of Arts & Science, Quilon.	J	961
118.	Fatima Mata National College, Quilon.	AS PG Ev.	2672
119.	S.N. College, Quilon.	AS PG	2818
120.	S.N. College for Women, Quilon.	ASW PG	2239
121.	Karmela Rani Training College, Quilon.	T	120
122.	St. Stephen's College, Pathanapuram.	J	705
123.	Mount Tabor Training College, Pathanapuram.	T	120
124.	S.N. College, Punalur.	J	788
125.	St. John's College, Anchal.	AS	1167
126.	N.S.S. College, Nilamel.	J	775

TRIVANDRUM.

127.	Iqbal College, Peringamala.	J	251
128.	S.N. College, Varkala.	AS	1202
129.	S.N. Training College, Nedunganda.	T	120
130.	St. Xavier's College, Trivandrum.	J	602
131.	S.N. College, Chempazhanthi	J	830
132.	Loyola College of Social Sciences, Sreekaryam, Trivandrum.	AS PG	85
133.	Mar Ivanios College, Trivandrum.	AS PG	2210
134.	Mar Theophilus Training College, Trivandrum.	T	120
135.	M.G. College, Trivandrum.	AS PG	2361
136.	College of Engineering, Trivandrum.	E	1500
137.	Medical College, Trivandrum.	M	1220
138.	Law College, Trivandrum.	L Ev.	638
139.	University College, Trivandrum.	AS PG Ev.	2003
140.	Govt. Sanskrit College, Trivandrum.	S PG	250
141.	College for Women, Trivandrum.	AS PG W	2042
142.	Govt. Training College, Trivandrum.	T PG	200
143.	Intermediate College, Trivandrum.	J	1554
144.	Ayurveda College, Trivandrum.	Ay	151
145.	N.S.S. College for Women, Trivandrum.	AS W	1325
146.	All Saints College, Trivandrum.	AS W	1088
147.	Agricultural College & Research Institute, Vellayani.	Ag. PG	300
148.	Christian College, Kattakada.	J	778
149.	Velu Thampi Memorial N.S.S. College, Dhanuvachapuram.	AS	982

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APPENDIX--C

PROBABLE BUDGET FOR NEW UNIVERSITIES

<u>Calicut</u> (Non-Plan)	Rs.
Administration	20,00,000
Existing 4 University Departments	3,50,000
University Library	1,00,000
Physical Education	1,00,000
Health Centre	50,000
University Press	1,50,000
Youth Welfare	1,50,000
Student Hostels	1,00,000
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	30,00,000
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<u>Anticipated revenue</u>	
Examination fees	20,00,000
Other fees	2,00,000
From University Departments of study	50,000
Other Departments	50,000
	<hr/>
	25,00,000
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Net block recurring grant needed.	7,00,000
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<u>Plan expenditure</u>	
1. UGC approved expenditure for new Departments etc.	17,50,000
2. Staff, Books, equipments	13,32,000
3. Committed expenditure which can be claimed towards buildings.	4,00,000
	<hr/>
	34,82,000
	<hr/>
Additional amount that may be needed for buildings, road, play fields, and other facilities (next 5 years period).	1,50,00,000
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<u>Ernakulam</u> (non-Plan)	
Administration	20,00,000
Existing 5 University Departments	6,50,000
University Library	1,00,000
Physical Education	1,00,000
Health Centre	50,000
University Press	1,50,000
Youth Welfare	1,50,000
Student Hostels	1,00,000
Maintenance of buildings	50,000
	<hr/>
	33,50,000
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Anticipated revenue

Examination fees	19,00,000
Other fees	2,00,000
From University Departments	50,000
Other Departments	50,000
	<hr/>
	22,00,000
	<hr/>
Net block recurring grant needed	11,50,000

Plan Expenditure

1. U.G.C. approved expenditure for new Departments etc.	8,09,000
2. Staff, Book, Equipments.	11,72,000
	<hr/>
	19,81,000
	<hr/>

Additional amount that may be needed for buildings etc. (Buildings for Rs.22 lakhs completed)	1,30,00,000
Adnl. Land acquisition.	50,00,000

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APPENDIX D

ANNUAL COST OF STAFF.

S.No.	Designation.	No. of posts.	Scale of pay.	Cost per mensem
1.	Vice-Chancellor	1	Rs. 2,500	Rs. 2,500
2.	Registrar	1	1000-1500	1,000
3.	Deputy Registrars	3	800-1100	2,400
4.	Assistant Registrars	4	550-800	2,200
5.	Private Secretary to Vice-Chancellor	1	550-800	550
6.	Superintendents	10	250-500	2,500
7.	Personal Assistant to Registrar	1	250-500	250
8.	Cashier	1	250-500	250
9.	Head Typist(Asst. Superintendent)	1	225-425	225
10.	Store-Keeper	1	130-250	130
11.	U.D.Clerk(Assistant Gr. I)	58	130-250	4,940
12.	L.D.Clerk(Assistant Gr.II)	17	90-160	1,530
13.	U.D. Typist	4	130-250	520
14.	L.D. Typist	2	90-160	180
15.	Stenographers to Deputy Registrars	3	130-250	390
16.	Receptionist	1	130-250	130
17.	Sergeant	1	130-250	130
18.	Store Attender	1	75-135	75
19.	Driver	1	75-135	75
20.	Duplicator Operator	1	75-120	75
21.	Daffadar	1	60-100	60
22.	Peon	27	60-100	1,620
23.	Gardeners	2	60-100	120
24.	Gate-Keeper	1	60-100	60
25.	Watchman	2	60-100	120
26.	Part-time sweepers	4	Rs.10 plus Rs.22.	128
				22,158

Annual cost. Rs.22,158 x 12 + Rs.2,65,896

Dearness allowance Rs.10,362) + Rs.1,24,344
x 12.)

H.R.A. Rs.812 x 12 + Rs. 9,744

3,99,984

say Rs.4,00,000.

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UNIVERSITY GRANTS COMMISSION

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Meeting:

Dated 6th March, 1968.

Item No. 30 To receive a note on the Audit and Inspection Notes on the accounts of the Lucknow University.

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The Examiner, Local Fund Accounts, Allahabad pointed out in the various Audit and Inspection Notes that the general state of accounts of the Lucknow University was far from satisfactory. Scant regard was paid to the settlement of objections which were being carried over from year to year from 1950-51. Due to improper maintenance and non-production of records relating to grants-in-aid audit could not certify the correctness of the accounts relating to grants-in-aid with the result the utilisation certificates in respect of grants-in-aid paid by the Commission could not be issued. Shri R.K. Chhabra, Joint Secretary, University Grants Commission, visited the university on 28th November, 1967 to discuss the matter with the university. A note of discussions recorded by him is attached (Appendix I). A copy of the note has since been sent to the university.

The matter is placed before the Commission.

J.S(A)

Note recorded by Shri R.K.Chhabra, after his visit to Lucknow University on 28.11.1967 in connection with the Audit and Inspection Reports on the accounts of the University.

I visited the Lucknow University on 28th November, 1967 in connection with the Audit and Inspection Report on the accounts of the Lucknow University. I had preliminary discussions regarding these with the Vice-Chancellor and the Registrar and then detailed discussions with the Hony. Treasurer Shri T.P.Bhalla, Shri S.P.Srivastava, Assistant Examiner, Local Fund Account was also present during the discussions at the invitation of the Lucknow University. I have the following observations to make:

1. Disposal of Audit and Inspection Notes:

Despite comments in the Audit and Inspection Notes every year, the University authorities hardly evinced any interest in the settlement of audit objections which were being carried over from year to year right from 1950-51. Their pointed attention was drawn to the Audit Notes for the years 1958-59 and 1959-60 which contained 247 and 270 objections respectively. Out of these not even a single objection had been settled. It was surprising to note that Audit and Inspection Notes for the year 1963-64 and 1965-66 which were received in the University Office in September, 1966 and July, 1967 had not been put up either to the Registrar or to the Hony. Treasurer or the Vice-Chancellor. Comments of the University to these and other Audit Notes had not been issued.

2. Non-submission of the Audited Accounts to the Executive Council and the Court.

Section 37(2) of the Lucknow University Act 1920 envisages that, the accounts of the University when audited shall be printed and copies thereof shall together with the copies of the audit report be submitted by the Executive Council to the Court and the State Government. It, however, transpired that the Audit and Inspection Notes for the last many years had not been submitted either to the Executive Council or to the Court. The last Audit Note which was stated to have been submitted to the Executive Council was for the year 1959-60. This was submitted to the Council on 29th March, 1963. Thus the Executive Council and the Court were not kept informed of the comments of audit on the financial administration of the University.

3. Delay in the issue of Audit and Inspection Notes

There was inordinate delay in the issue of the Audit and Inspection Notes by the Examiner, Local Fund Accounts Allahabad; as for instance the audit notes for the years 1960-61 onwards had not been issued till the conclusion of audit for 1963-64 on 2.8.1964. Audit and Inspection Note for the year 1961-62 was issued as late as March 1967. Shri Srivastava explained that the delay was due to the fact that Section 37 ibid required prior printing of the Audit Notes which took a long time owing to heavy rush of work in the Government Press. He stated that his office had already started issuing typed copies of the Audit Notes immediately on the conclusion of Audit.

4. Audit and Utilisation Certificates in respect of grants-in-aid paid by the Commission.

Paras 5 of the Audit and Inspection Notes for the years 1963-64 and 1965-66 indicated that due to incomplete and defective maintenance and non-production of records relating to grants-in-aid, audit could not verify the accounts of grants-in-aid and, therefore, could not issue the necessary certificate of audit and utilisation of grants.

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It was pointed out that non-issue of utilisation certificates had been a subject of adverse comments by the Public Accounts Committee of Parliament, Unless corrective measures were taken by the University in this regard, the Commission would be constrained to stop further payments of development grants to the University.

5. Form of Audit and Utilisation Certificate.

The need for issuing separate schemewise audit and utilisation certificates in the form prescribed in Commission's circular letter No.F.5-72/66(Accts-G) dated 28/30th December, 1966, was stressed, Shri Srivastava, however, expressed some difficulty in issuing the certificates in this form as the audit conducted by them was of the nature of test check only, the scrutiny being limited to the selected four months only. It was, however, pointed out that as the certificates in the prescribed form were already being issued by the statutory auditors of many other Universities this could be done in the case of Lucknow University also. Shri Srivastava stated that he would discuss this issue with the Examiner Local Fund Accounts and communicate his decision to the University as well as the University Grants Commission. (This issue was also latter discussed with Shri S.N. Mehrotra, Deputy Secretary Education, U.P. Government who stated that the proposal for providing a concurrent audit in the Lucknow University had almost been finalised. In that case, audit being cent per cent, there could hardly be any objection in issuing the certificates in the prescribed form).

6. Non-recurring grants for the purchase of equipment
(para 5(V) of the Audit and Inspection Note for 1965-66.

Grants paid by the Commission for the purchase of Scientific equipment are subject to the condition that 20% of the grant could be spent on the purchase of furniture. To enable audit to verify that the prescribed limit is not exceeded, it was suggested that the expenditure columns in the grants register maintained by the University may be split up in two parts for recording expenditure on equipment and furniture separately.

7. Audit Memoes issued during course of Audit

Shri Srivastava pointed out that during the course of audit replies to audit memoes are not issued by the University. Sometimes the relevant records are also not produced to audit.

8. Diversion of Grants.

Adverting to Para 5(XVI) of the Audit and Inspection Note 1963-64, it was pointed out that the Cash Book showed a debit balance of Rs. 6,34,848.38 as on 31.3.1964 against which the unspent balances of non-recurring grants alone amounted to Rs. 15,57,336.88. This indicated that the amounts of grants-in-aid had been utilised for purposes other than those for which the grants were sanctioned. Shri Bhalla admitted diversion of grants money to meet certain inevitable payments (like enhanced payments of D.A. and certain rents, rates and taxes, etc. which were not fully reimbursed by the State Government).

9. The following decisions were taken :

(i) The University would take immediate action on all the outstanding paras in the Audit and Inspection Notes and pass on their replies to audit and keep the Commission informed of the action taken.

(ii) The University would furnish to the Commission a statement regarding submission of the Audited Accounts of the

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University (from 1953-54 onwards) to the Executive Council/
Court in the following form:

1. Sl.No.
2. Year
3. Date of finalisation of Annual Accounts.
4. Date of submission to the Executive Council
5. Dates of Audit.
6. Date of issue of the Audit Report.
7. Date of submission to the Court.

- (iii) The annual Accounts of the University together with the Audit reports thereon would be placed before the Executive Council and the Court in all cases in which this has not been done already.
- (iv) The Examiner, Local Fund Accounts, would arrange to supply to the Commission a complete set of printed Audit and Inspection Notes on the Accounts of the Lucknow University.
- (v) The decision of the Examiner, Local Fund Accounts as to the form of the Audit and Utilisation Certificate would be communicated to the University as well as University Grants Commission at an early date.
- (vi) The University Grants Commission would arrange to send to the Examiner, Local Fund Accounts as well as the University, statements showing details of grants paid to the University since inception.
- (vii) Subject to (v) above, the University would in all the outstanding cases, prepare accounts of grants paid by the Commission in the prescribed proforma and place them before the next audit of the University for the issue of the necessary audit and utilisation certificates.
- (viii) During the course of audit, replies to all the memoes may be issued by the University expeditiously and due co-operation extended to audit in the production of the records and otherwise in the smooth conduct of audit.

Sd/-

(R.K.Chhabra)

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UNIVERSITY GRANTS COMMISSION

Confidential

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Meeting:

Dated 6th March, 1968

Item No. 31: To consider further the reference from the Government of India regarding employment opportunities for Muslims in Government services.

.....

The University Grants Commission at its meeting held on 2nd November, 1967 considered a reference from the Government of India regarding employment opportunities for Muslims in Government service. A copy of the note circulated to the members of the Commission is attached. The consideration of the item was postponed as the Commission wanted some more information.

The Government of India were requested to send to the Commission a copy of the study made which indicated that the Muslim Community in India was educationally backward. The Government of India has now intimated that they have not conducted any study in this regard.

The matter is placed before the Commission for consideration.

E.O(CD)/J.S(A)

UNIVERSITY GRANTS COMMISSION

To consider a reference from the Government of India regarding employment opportunities for Muslims in Government Service.

...

The Government of India have under consideration the question of provision of employment opportunities for Muslims in Government service in the country. An extract from the letter dated 30th August, 1967 from the Government of India, Ministry of Home Affairs, to the Ministry of Education is reproduced below: -

"Government have been receiving representations from various Muslim religious and cultural organisations, as also Muslims prominent in public life, that their community does not get a fair share of Government employment and that it is being discriminated against in recruitment to Government services. These complaints have been carefully investigated and have revealed no indication of any discrimination against any minority community, or the Muslim community in particular, though some latent prejudice among some recruiting authorities, e.g., Police Forces, cannot altogether be ruled out. With a view to ensure that the policy of non-discrimination not only continues to be followed but is manifestly seen to be so followed by these sections of the community, we propose to issue instructions to the recruiting authorities and the D.G.E. & T. as in the draft enclosed.* However, one of the main drawbacks, namely, the educational backwardness of the Muslim community, would also require some special attention. Article 46 of the Constitution enjoins the State to promote with special care the educational and economic interests of the weaker sections of the people. We would, therefore, like to request the Ministry of Education to study the problem in all its aspects with a view to consider whether some measure could be devised to promote the more rapid educational advancement of the community. Their technical training and education may require special thought as with the growing industrialisation of the country's economy, there will be more avenues for employment in the grades of engineers, technicians, craftsmen, etc. and unless the Muslim community is afforded sufficient opportunities to receive adequate technical education and training, they may lag behind, notwithstanding their progress in general education.

not enclosed.

2. We would like to bring to the notice of your Ministry the following few specific suggestions in this context:-

- (i) Universities like Aligarh, Osmania, Jammu & Kashmir, etc., which traditionally serve the needs of large sections of the Muslim community could be encouraged to provide facilities for their graduates to prepare themselves for the competitive examinations held by the Central and State Governments.
- (ii) High Schools and other institutions having a large number of Muslim students on their rolls, could be encouraged to introduce vocational training particularly in the skills needed in Government employment, such as typewriting, shorthand, etc.
- (iii) Measures for the spread of technical training and education amongst Muslims, specifically encouraging all such institutions in this field as serve the needs of the Muslim community in particular."

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The Government of India, Ministry of Education have asked for the views of the University Grants Commission on para. 2 of the letter.

The matter is placed before the Commission for consideration.

E.O.(CD)/D.S.

Meeting:

Dated 6th March, 1968.

Item No. 32 - To consider the report of the Committee on Military Science and the views of the Ministry of Defence on the Report.

The Commission at its meeting held on 2nd August, 1967 considered the report of the Committee on Military Science along with the views of the Inter-University Board and the N. C. C. Directorate, and desired that the report may be referred to the Ministry of Defence for their comments who may, if they consider necessary, consult the National Defence Academy, Khadakvasala. The Commission further desired that the recommendations in the report with regard to need for collaboration between Defence Science Laboratories and Science Departments of universities may be discussed with the Defence Research and Development Organisation and the Defence Ministry, and the matter brought up again before the Commission. The main observations and recommendations of the Committee are as stated in Annexure I.

The following recommendations in the report of the Committee pertain to the Ministry of Defence:

- (i) Ministry of Defence may consider giving some preference to graduates in Military Studies for commission in the Armed Forces provided they pass the SSB tests and found physically fit;
- (ii) The period of training of such graduates at the pre-commission training institutions should be suitably fixed giving due credit for their knowledge of Military Studies;
- (iii) Graduates in Military Studies could be absorbed as instructors in Military Academies, Sainik Schools and NCC and in the Technical Corps of the Army (those who have done Defence Technology) etc.

The comments of the Ministry of Defence on the above recommendations of the Committee are as under:

- (i) At present the minimum qualification for Direct Entry civilian in the IMA is Intermediate. No special preference is given to graduates whatever be the subjects they have studied. The higher attainments of the Graduate applicants would be normally reflected in the results of the SSB interviews. It may not be feasible to give any special preference to a graduate who has taken Military Studies.
- (ii) It is not possible to reduce the period of training for Military Science graduates as acquisition of background knowledge is quite different from mastering certain 'skills' which the pre-commission training aims at.
- (iii) Sainik Schools are only educational (and not military) institutions which prepare students upto I.Sc. standard so that they can take the U.P.S.C. examination for entrance to N.D.A. They therefore require teachers who have specialised in the subjects which are taught to students of the I.Sc. course. Since Military Studies are not taught in Sainik Schools, graduates in Military Studies are not qualified to be employed as instructors in Sainik Schools. NCC's requirements of instructors are not through the Services and there is at present no provision for a whole time career in the NCC for an instructor specially recruited for the purpose. Military Academies require instructors who have specialised and have post-graduate qualifications in the subjects which are taught in the Academies. Other things

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equal, an applicant with a basic degree in Military Studies and a postgraduate degree in the relevant subject can be given preference when instructors are recruited. AG's Branch have indicated that there is no requirement of Graduates in Defence Technology for the Corps of Engineers, Signalors and Electrical Mechanical Engineers.

Regarding the need for collaboration between the Defence Science Laboratories and Science Departments of the Universities, the following important observations have been made:

- (a) The Research and Development Organisation may arrange in its laboratories all over the country special familiarization programmes such as Radar techniques etc. of 3-4 weeks' duration for teachers of the Indian Universities to enable them to acquaint themselves with the various scientific programmes undertaken by the Defence Science Laboratories.
- (b) The details of the special facilities available in the Laboratories of the R & D Organisation may be made available to the University Grants Commission for onward transmission to the universities with a view to enable the universities to formulate suitable research programmes to be considered and financed by the R. & D. Organisation of the Ministry of Defence.
- (c) The universities and the Defence Science Laboratories may also undertake joint research programmes.
- (d) For promoting collaboration between the laboratories of the R & D Organisation and the universities, there should be an exchange of personnel between the Defence Science Laboratories and the university departments. Laboratories of the R. & D. Organisation may be recognised by the universities to permit candidates for doing doctoral work and submit thesis to the universities concerned.
- (e) The U.G.C. may recommend names of suitable candidates from the universities to the Ministry of Defence (R & D Organization) for undertaking research projects relating to topics on defence science. Similarly, proposals relating to defence science received from universities from individual teachers be referred to the R & D Organization of the Ministry of Defence for providing financial assistance.
- (f) Proposals received from the universities for assistance out of PL 480 funds in respect of projects relating to defence sciences be passed on to the Defence Science Organisation for consideration and assistance. Such projects may not be considered for support from PL 480 funds.

The matter is placed before the Commission for consideration.

E.O.(H)/D.O.(H)

Main observations and recommendations of the
Review Committee on Military Science.

1. Since the general aim of 'Military Science' as it is taught in Indian Universities, is to encourage an academic study of the subject, to emphasise the impact of military conflicts on society and to evolve from studies ways and means to face the contemporary problems of peace and war, it would be more appropriate to call the subject 'military studies' or 'war studies'.
2. It is necessary to distinguish between the socio-economic and technological aspects of Military Studies. The former involved an integrated study of the evolution of the principles and techniques of war, the organization and functions of the armed forces, geo-strategy and geo-politics, socio-economic factors related to wars, contemporary problems of war, peace and disarmament etc. The latter deals with the evolution and use of weapons etc., and is more closely related to the applied sciences and defence technology.
3. Since Military Studies as an academic course is not directly concerned with military training or specialized technical studies as required for service officers, some aspects of it could appropriately be studied at the postgraduate and research levels under social sciences, basic and applied sciences, and engineering and technology. However, at the undergraduate level, the subject would have to be treated substantially as a part of general or liberal education, more akin to the social sciences than to the physical or applied sciences.
4. At the undergraduate stage Military Studies could be taken up as an optional subject on the same footing as political science, economics history etc. Since the main aim of undergraduate studies is to impart liberal education, military studies might be included at this stage as one of the optional subjects. This will enable graduates with military studies as a subject to either take up postgraduate courses in any of the other subjects or find employment in these sectors which are normally open to graduates. In case, Military Studies is offered as a special or major subject, it has to be ensured that other courses are also studied along with it, so that the students can proceed to postgraduate work in any one of these disciplines.
5. The courses of study currently followed by different universities often show a lack of awareness of the goals which should underline Military Studies in universities and colleges. It is best to omit practical work like map reading, drill etc., as also those papers which are meant for specialization at the postgraduate level, such as international law. Emphasis should be laid on the study of the theory of war, the history of warfare, socio-economic consequences of war etc.
6. Courses in Military Studies should not be started in institutions which do not have adequate facilities and competent teaching personnel in the subject. This has to be borne in mind because proper instruction requires teachers who have suitable postgraduate qualifications. It will be desirable to lay down suitable conditions of service for such personnel.
7. Military Studies also requires a close liaison and collaboration with such disciplines as political science, economics, history and geography on account of their inter-disciplinary character. It would be easier to foster serious academic interest in the subject if the cooperation of the allied departments, particularly in the social sciences, is available in the teaching programme.
8. Military Studies at the postgraduate level cannot be offered as a full-fledged subject or made the concern of an independent department, since its various aspects and branches can be more intensively and fruitfully studied under allied disciplines. For example, subjects like the economics of war, ballistics, military geography, military history etc., are better taught in the departments concerned than in the department of Military Studies.

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9. In selected M.A., M.Sc. courses there could be some papers largely optional, relating to Military Studies. It is for the universities to decide whether they would have a group of papers or only one or two papers and to work out the details.

10. Postgraduate studies and research programmes on various aspects of Military Studies could be encouraged in universities which have suitable facilities. This will also help in the training of competent personnel and production of suitable literature in this field.

11. The Ministry of Defence may consider giving some preference to graduates in Military studies for Commissions in the Armed Forces, provided they pass the officers' Selection Board Tests and are found physically fit. The period of their training at pre-Commission training institutions should be suitably fixed, giving due credit for their knowledge of military studies.

12. Since Military Studies is a useful subject in general education, the Union Public Commission and the State Public Service Commissions may consider the introduction of subjects like military history, economics of war, strategic geography etc., as optional papers for the competitive examinations conducted by them.

Meeting :

Dated : 6th March 1968

Item No. 33: To consider a proposal of the Banaras Hindu University for introduction of a Health Service Scheme for the employees and students residing in the university campus.

....

The U.G.C. appointed some time back a Committee under the Chairmanship of Dr. A.L. Mudaliar, Vice-Chancellor, Madras University to formulate a scheme for Health Service for students and staff in universities and colleges. The Commission accepted the recommendations contained in the Report and desired that the question of implementation of the Mudaliar Committee Report may be taken up in the case of the Central Universities and the universities be requested to send their specific proposals to cover both employees and students of the universities. The universities were, therefore, requested to send their specific proposals in this regard.

2. Initially, the Banaras Hindu University had drawn up a scheme for compulsory Health Examination of students, as envisaged in the report. The proposal was placed before the Commission at its meeting held on 5th July 1967 (Item No. 13(b)). It was agreed that in view of the income received by the university from fees charged from the students, they may consider making the scheme self-supporting as part of the normal activities of the university.

3. The University had also sent a proposal for the Dispensary Service Scheme which is also contemplated in the report of the Mudaliar Committee. The university proposed to adopt the Four Doctor Dispensary pattern as mentioned in the Mudaliar Committee Report and had also stated that no extra staff would be required by them, as they were already in existence. The university was requested to intimate the scale of contribution by the staff.

4. The Banaras Hindu University has now stated that the Report of the Mudaliar Committee on Health Services for staff and students in the university and the colleges has been considered by the Standing Health Committee constituted by the University under the Chairmanship of the Vice-Chancellor and the following decisions have been arrived at:-

- a) The University Health Services be organised on the same lines as the Central Govt. Health Scheme in Delhi.
- b) The scheme be implemented w.e.f. 1st April 1968 and the charges from the members of the staff be deducted from the salary bills of March 1968 on the same scale as approved in the Central Govt. Health Scheme.
- c) The U.G.C. be requested to approve the scheme including sanction of their contribution on the C.H.S. basis.
- d) The scheme be made compulsory for the residents of the campus and voluntary for the non-residents.

5. The financial implications of the Health Service Scheme as worked out by the Banaras Hindu University are as detailed below:

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Total cost on 540 families @ Rs.92/- per family. Rs. 49,680.00

Total cost on 5000 students @ Rs.20/- per student. Rs. 1,00,000.00

Total: Rs. 1,49,680.00

Total income from students and staff on C.H.S. basis, Rs. 55,509.00

U.G.C. contributions needed towards the scheme Rs. 94,171.00

Rs. 1,49,680.00

In calculating the total cost, the C.H.S. figures of 1963 viz., Rs.92/- per family and Rs.20/- per individual have been taken into account. The above expenditure may have to be increased consequent upon the rise in prices of medicines etc.

6. The particulars of residents in the various salary groups and the monthly contributions estimated to be received from these members as calculated by the university are detailed below:-

<u>Grade</u>	<u>No. of grs.</u>	<u>Contributions (Monthly)</u>
CHS 1000-1499/- BHU 1100-1600/-	46	6 x 46 = 276.00
CHS Rs.750-899/- BHU Rs.700-1250/-	92	5 x 92 = 460.00
CHS Rs.500-749/- BHU Rs.400-950/-	220	4 x 220 = 880.00
CHS Rs.250-499/- BHU Rs.210-425/-	64	2.50 x 64 = 160.00
CHS 151-249/- BHU Rs.130-256/-	31 (approx)	1.50x31 = 46.50
CHS Rs.76-150/- BHU Rs.110/--180/-	31 (")	0.75x31 = 23.25
<u>Wardens</u>		
CHS Rs.750-999/- BHU Rs.700-1250/-	56	5 x 56 = 280.00
Total:	540	Rs. 2125.75 monthly

Contribution for one year = 2125.75 x 12 = Rs. 25,509.00

Contribution for one year from students (5000) @ 6/- per student per year = 5000x6 Rs. 30,000.00

Total income from students and staff for one year on CHS basis = Rs. 55,509.00

7. The total expenditure on the implementation of the above scheme for the resident members of the university campus is

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estimated to be Rs.1,49,680/- (this will be raised to Rs.2,00,000/- if members of the staff and students of the university residing outside the university campus also join the scheme voluntarily for which the university will be sending a separate scheme). Against this, the total income from staff and students on the CHS basis is estimated to be Rs.55,509/-. The university has therefore requested the U.G.C. to meet the deficit of Rs.94,171 (Rs.1,49,680/- minus Rs.55,509/-), so that the scheme may be implemented for giving benefit to the staff and students residing on the university campus.

8. It may be stated that the general question of introducing the above scheme in the universities is pending for want of funds from the Govt. of India.

9. The proposal of the Banaras Hindu University is placed before the Commission for consideration.

J.S.(A)

Meeting:

Dated 6th March, 1968.

Item No. 34: To consider the proposal of Panjab University regarding construction of ^{an} Extension Library at Ludhiana.

.....

The Commission at its meeting held on 6th November 1963 (item No. 32) approved construction of Extension Library at Ludhiana on a sharing basis of 2/3rd : 1/3rd provided that the Commission's share does not exceed Rs. 5 lakhs. Accordingly, the plans and estimates submitted by the Panjab University for its construction at an estimated cost of Rs. 6,05,000 (including all services, fittings and furniture) were approved in December, 1963. As the University could not implement the scheme within one year of its sanction, the scheme lapsed. The University approached the Commission in May 1966 for revival of the Scheme with preliminary estimates of Rs. 7,96,800. It was stated that the University could not undertake the work of the Extension Library at Ludhiana as the land, which belonged to the Panjab Government, had not been handed over to them earlier. The University also confirmed to treat the scheme as a 1st priority proposal in the Fourth Plan. The University was informed in October 1966 that the proposal would be examined by the Fourth Plan Visiting Committee along with other proposals of the university and action will be taken on the basis of their recommendations.

The Visiting Committee which visited the University during 9th - 10th January, 1967 has stated in its report that the extension library at Ludhiana was established about 6 years ago and that the construction of the extension library building was already in progress and was expected to be completed by the end of March 1967. The Visiting Committee recommended a provision of Rs. 5.33 lakhs for the building as UGC share, the approved expenditure being Rs. 8.00 lakhs. The approval of the U.G.C. based on the Fourth Plan recommendations of the Visiting Committee was communicated to the University on 5th August, 1967.

The University has now informed the Commission that the building has been completed at a cost of Rs. 7,96,480 and has requested that the Commission's share of Rs. 5.33 lakhs be released to the university. Thus the construction of the building has been undertaken and completed by the university without awaiting the Fourth Plan approval of the Commission, but on the basis of Third Plan sanctions. Since the University has agreed to meet this expenditure out of allocation to the University in Fourth Plan the amount due as UGC share could be released, if approved.

The matter is placed before the Commission for consideration.

Meeting:
Dated 6th March, 1968.

Item No. 35: To consider the proposal from the Patna University for assistance for construction of a Jubilee Hall-cum-Auditorium out of the special grant of Rs ten lakhs sanctioned on the occasion of the Golden Jubilee Celebrations of the University.

.....

The University Grants Commission at its meeting held on 5th July, 1967, considered a proposal from Patna University for assistance towards projects to be undertaken in connection with the Golden Jubilee Celebrations of the University. The Commission agreed that a grant not exceeding Rs. 10,00,000 be paid to the Patna University in connection with its Golden Jubilee Celebrations. The Commission also desired that the grant should be utilised on schemes to be approved by the Commission.

The University has now intimated that they propose to utilise the grant of Rs. 10,00,000 for the construction of a Jubilee Hall-cum-Auditorium. The estimated expenditure on the project is Rs. 11,55,000. The building would consist of a stage and a hall with shell-roof and also provide sound proof and heat-proofing arrangements.

The matter is placed before the Commission for consideration.

E.O(CD)/J.S(A)

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated, 6th March, 1968.

- Item No. 36 - To consider a note on the Operational Work Plan of the proposed Programme Agreement to be signed between the Government of India and the United States Agency for International Development.

The Commission at its meeting held on 7th December, 1966 (Item No. 8) was informed about the programme agreement signed between the Government of India and the U.S. Agency for International Development regarding the Science Education Improvement Project. In accordance with the usual procedure of the Government, a project is reviewed annually and a programme agreement, alongwith the revised operational work plan, is prepared and signed between the two Governments. The Operational Work Plan for the current year 1968 for the science education improvement project has now been signed between the Ministry of Education and the U.S. Agency for International Development (Education Division). This would form the basis of the new programme agreement to be signed between the Ministry of Finance and the U.S. Agency for International Development. A copy of the Operational Work Plan for the year 1968 is attached. The chief objectives are given below:

1. To develop the capacity, particularly the necessary institutional framework, to carry on a programme to improve the quality of science teaching at the university, college and secondary school levels.
2. To maintain through NCSE, and the agencies concerned such as UGC, NCERT and APTI, a summer science institute programme in mathematics, the sciences, engineering and polytechnics.
3. To mount through the NCSE, and the agencies concerned such as UGC, NCERT and APTI, summer science institute follow up programmes that may include, but not be limited to:
 - a. College development programmes
 - b. University/College- School Cooperative development programmes.
 - c. Curriculum materials development.

This will be done taking full advantage of existing programmes underway.

4. To provide participant training in the United States to administrators and panelists of the NCSE, and key persons involved with special projects.

The Operational Work Plan envisages the following expenditure for the projects:

U.G.C.	Rs. 72,50,000	
N.C.E.R.T.	Rs. 32,00,000	
A.P.T.I.	Rs. 23,00,000	<u>Rs. 1,27,50,000</u>

(Funds to be used in support of NCSE projects including Summer Science Institutes, College Development Programmes and University/College-School Cooperative Development Programmes, Curriculum Materials Development and Special Projects).

In addition to the projects mentioned above, funds amounting to Rs. 4,66,000 will be provided for the N.S.C.E. Office expenditure and return fare for 24 participant trainees to U.S.A. The break

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up of the higher education loan has also been outlined, which is given below:

Budgeted by U.G.C. and Ministry

a) 1965 SSIs (out of \$ 730,000) \$ 400,000

Budgeted by the Ministry

b) Science Education Improvement Programme \$/ 150,000 (NCSE out of \$ 300,000)

Budgeted by U.G.C. (out of \$ 4,570,000)

Summer Science Institutes \$ 200,000

SSI Follow Up Programmes \$ 100,000

University and College Department of Science \$ 1500,000

Budgeted by the Ministry

c) Engg. & Tech. Institutes/College and Polytechnics (out of \$ 5,400,000)

Summer Science Institutes } \$ 3000,000

SSI Follow up Programme }

Equipment for departments }

The Programme agreement, when signed, will be put up to the Commission.

The matter is placed before the Commission.

E.O(SI)/D.O(SI)

H18

OPERATIONAL WORK PLAN - COVER DATED 1968

TITLE: SCIENCE EDUCATION IMPROVEMENT

Project No. 386-11-660-226

Preface:

This Operational Work Plan provides a description of the activities contemplated under this project. It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signatories. The Plan does not commit either government until the required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each Government to the specific actions required will be made by the execution of a Project Agreement.

Background:

The Science Education Improvement Project had its origins with the summer science institutes program which began in 1963. During the summers of 1963, 1964, 1965 and 1966 a total of 236 institutes in mathematics, physics, chemistry, biology, engineering and technology were conducted for some 9,100 Indian college and secondary school teachers. The institutes were jointly financed by the Government of India and the United States Agency for International Development. They were conducted on the pattern of those established by the United States National Science Foundation, and approximately 486 American consultants came to India to assist the teaching facilitation of summer science institutes. College level institutes, secondary school level institutes, engineering institutes and polytechnical institutes were assisted by the Ohio State University, Teachers College Columbia University, University of Wisconsin and University of Houston respectively.

As the summer science institutes program expanded the government of India and the USAID recognized that summer science institutes alone could not effect the desired improvement in the quality of science education in the schools, colleges and universities of India. Follow up programs within the full spectrum of educational services would have to be mounted to realize fully the objectives of the summer institute program. In the summer of 1966 a conference of Indian and American scientists and administrators recommended the establishment of an administrative body to coordinate an all India program for the improvement of science education. This body became the National Council for Science Education (NCSE). On its part, USAID invited the United States National Science Foundation (NSF) to coordinate American assistance to the establishment and to the programs of the NCSE. On November 1, 1966 the GOI and USAID signed a formal agreement.

The National Council for Science Education was set up and is budgeted by the Ministry of Education. It functions as an advisory body to the University Grants Commission, National Council of Educational Research and Training, the Association of Principals of Technical Institutes and other agencies concerned with science education. Council membership is held by eminent scientists, engineers and educators. The Council entertains proposals

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for science institutes, and research and development projects related to the improvement of science education. National Advisory Panels for Science Education (NAPSEs) meet periodically to review proposals and recommend action to the Council. Projects may then be referred to appropriate government agencies for funding and administration. The currently affiliated agencies and represented professional organizations are the University Grants Commission (UGC), The National Council of Educational Research and Training (NCERT), the Association of Principals of Technical Institutions (APTII), Indian Council for Agricultural Research (ICAR), the Council for Scientific and Industrial Research (CSIR) and the Indian Council of Medical Research (ICMR).

/staff

During the NCSE's first year members were appointed for service on the Council and on the NAPSEs. The Council met five times in 1967. The panels on basic science assembled once and mathematics met twice. An office building for the secretariat and NSF advisors was secured through NCERT at Nino Ring Road, New Delhi. A secretariat for NCSE is being authorized, the funds for its maintenance are being sanctioned and positions are in the process of being filled.

The National Science Foundation Liaison Staff was built up to a strength of eleven (eight scientists, two scientist-administrators and one executive officer) by the fall of 1967. Throughout 1967 the staff scientists had been engaged in two major tasks. They assisted in the establishment of the administrative facilities of the NCSE and participated in the preliminary negotiations on the overall scope of the science education project. The NSF staff was also consulted by the UGC in the selection of sites to inaugurate the college development program in mathematics.

In 1967 there were 132 summer science institutes which engaged approximately 5280 participants and 163 U.S. consultants. NSF Liaison Staff members participated in the planning and evaluation of the summer science institutes program. Additionally, NSF Liaison Staff members were involved in the indigenous development of equipment and materials which complemented the work of the institutes.

NSF Liaison Staff members have established personal and professional rapport with their counterparts within the Council, the NAPSEs and throughout much of the scientific-academic community. These relationships have favored their effective functioning as advisers.

At the time the National Council for Science Education was being formed, a number of projects for the improvement of science education were already underway. NCERT, for example, had inaugurated several major science curriculum revision programs prior to June 1966*. NSF decided that it need not restrict its involvement to those projects that will be initiated and maintained through NCSE. The technical advisory services of NSF are available to Indian agencies *Science in Our Schools. National Council of Educational Research and Training New Delhi, 1966.

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under the terms and policies governing USSE/NSF relations; and by the
allocation for J.S. AID to provide assistance and by a final agreement of the course
of action.

2. 2.

1. To develop the capacity, particularly, the necessary institutional framework, to carry on a program to improve the quality of science teaching at the university, college and secondary school levels.
2. To maintain through the USSE, and the agencies concerned such as UGC, NCERT and AICTE, a summer science institutes program in mathematics, the sciences, engineering and polytechnics.
3. To mount through the USSE, and the agencies concerned such as UGC, NCERT and AICTE, summer science institute follow up programs that may include, but not be limited to:
 - a. College development programs
 - b. University/College-School cooperative development programs
 - c. Curriculum materials development.

This will be done taking full advantage of existing programs wherever possible.

4. To provide participant training in the United States to administrators and principals of the USSE, and key persons involved with special projects.

Dispositions:

The NSF Science Staff will continue to function as a pool of experts for the Council, its secretariat and the various NSF staff and departments. The staff will participate in initiating and following up programs as advisors invited through appropriate channels. The role of each consultant will be clearly defined by counterpart personnel and a report prepared for the NSF prior to the assignment of the consultant. Each consultant must agree to a job that is within the experience of his counterpart(s) to perform.

It is essential that NSF relate to one advisory body representing the community of science concerned and providing the Ministry of Education with coordinating mechanisms for the development of science education. The likelihood of the main objective of this project depends on the viability and the effectiveness of such an organization.

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III. Inputs:

A. U.S.

1. Technical Advisory Services:

a. NSF Liaison Staff:

	<u>Man Months</u>		<u>Loc</u>	<u>Counterparts</u>
Biology	1	12	NEW DELHI	NCSE Secretariat NAPSEs, and the Council members
Physics	2	24		
Mathematics	2	24		
Engineering	1	12		
Polytechnic	1	12		
Materials Specialist	1	12		
Head (Biology)	1	12		
Depty Head (Chemistry)	1	12		
Executive Officer	1	12		
Secretary	1	12		

b. Short-term consultants
(Up to 175 consultants
for 2 to 4 months
appointments).

175	350	Summer In- stitute sites	Directors of SSIs.
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c. Technicians: School Science Curriculum Development
(Up to eight consultants for six months
appointments).

Chemist	2	12	Headquarters site of sec- dary school curriculum Development Groups	Coordinators of Secondary School Curri- culum Develop- ment Groups
Biologist	2	12		
Physicist	2	12		
Mathematician	2	12		

d. College Development Technicians:
(Up to eight consultants for
one year appointments).

Chemist	2	12	University campus sites of College Development Programs	University Professors
Biologist	2	12		
Physicist	2	12		
Mathematician	2	12		

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2. Participants:

<u>Field of Training</u>	<u>Number</u>	<u>Duration (Months)</u>	<u>Position, Agency & Location</u>
United States National Science Foundation administrative operations, programs selection and control	2	6	Secretariat NCSE - 1968 New Delhi.
Science curriculum, teaching and other development programs	15	15	University Professors IAPSEs, All India 1968
-do-	7	21	Key personnel connected with special projects, All India 1968

3. Commodities to be ordered:

Technical support commodity purchases	Dollars	15,000
Technical support commodity purchases		Rs. 75,000

4. Other inputs:

a. Orientation Travel - 4 NSF Liaison Staff	Rs. 15,000
b. Professional Travel - 6 NSF Liaison Staff	Rs. 67,500
c. Special consultants and visitors - Eight	Rs. 90,000

B. GOI:

Funds to be used in support of NCSE projects including: Summer Science Institution, College Development Programs and University/College-School Cooperative Development Programs, Curriculum Materials Development and Special Projects:

UGC = Rs. 7,250,000	} Rs. 12,750,000
NCERT = Rs. 3,200,000	
APTE = Rs. 2,300,000	

In addition to project support the following funds will be allotted:

Rent and maintenance of NCSE offices at 9 Ring Road	Rs. 100,000
Secretariat - Pay of staff and other charges	Rs. 100,000

Travelling and other allowances on members of the Council and Advisory Panels	Rs. 50,000
Return trip fare for 24 participants trainees to the U.S.	Rs. 216,000

115. education loans:

Budgeted by JGC & Ministry	
a) 1965 SSIs (out of ₹730,000)	₹ 400,000

Budgeted by the Ministry	
b) Science Education Improvement program (ICSEI out of ₹300,000)	\$ 150,000

Budgeted by UGC (out of ₹4,570,000)	
Summer Science Institutes	\$ 200,000
SSI Follow up Program	₹ 100,000
Univ & College Department of Science	₹1,500,000

Budgeted by the Ministry	
c) Engg. & Tech. Institutes/Colleges and Polytechnics (out of ₹5,400,000)	
Summer Science Institutes	₹3,000,000
SSI Follow up Program	
Equipment for departments	

In 1968 the UGC/ICSEI/APEI will operate 154 institutions (56 school institutes, 5% college institutes, 17 engineering institutes and 27 polytechnic institutes, of which approximately 100 will be assisted by USAID.

Individual summer science institutes follow-up projects will be fully financed by sponsoring agencies to the limits imposed by agencies' appropriation and professional resources.

IV. Time Phased Course of Actions:

Goal 1: The Functioning of National Council for Science Education.

1. The Council will define its role in the existing milieu of agencies, institutions and councils. As it progresses its action will become increasingly directed toward the task of science education improvement. NSF will advise the Council.
2. Some appointments to the secretariat staff have been made. A firm administrative structure for the secretariat was proposed at the December 13, 1967 meeting of the Council. A finalized structure is anticipated in early 1968. Permanent membership, representative of the affiliated agencies, will take office as soon as the current professional positions of the appointees can be adequately covered. The Council is proceeding with deliberate caution to insure the placement of qualified people. NSF will advise the secretariat.

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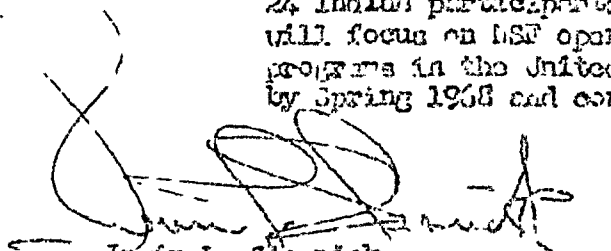
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university. Competitive proposals for three additional college development programs, one each in biology, chemistry and physics are under consideration and will be underway by summer 1968. Up to eight U.S. specialists (two at each of four universities) will be in residence at university centers by summer 1968.

- 3. The NCERT Science Curriculum Development Groups will assemble in February 1968 and take stock of their progress. It is expected that several groups will have completed the first cycle of their work and be ready to commence the preparation of curricula for standards 8, 9 and 10. Other Groups not having completed curricula for standards 5, 6 and 7 may delay the start of the second phase of their writing beyond summer 1968. During the February meeting, group chairmen will specify their needs for U.S. technical assistance. Up to eight U.S. specialists in curriculum preparation will be recruited and be in residence at curriculum writing centers by the summer of 1968.

Goal 4: Participant Trainings

The IESSE with the assistance of NSF advisors will select up to 24 Indian participants for training in the United States. Training will focus on NSF operations and science education improvement programs in the United States. Participants training will begin by Spring 1968 and conclude by winter 1968.


 Irwin L. Sloanick
 Chief Education Advisor (Acting)
 USAID New Delhi.


 L. S. Chandrasekhar
 Jr. Educational Advisor
 Ministry of Education
 New Delhi.

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Confidential

UNIVERSITY GRANTS COMMISSION

Date:	Meeting :
Time:	6th March, 1968
Place:	10 A.M.
	UGC Building
	New Delhi.

AGENDA (Contd.)

- Item No.37: To receive a reference from the Government of India regarding visit of members of the Foreign Diplomatic and Consular Missions to educational institutions in border regime of India. p.137
- Item No.38: To consider the terms and conditions of Research Training Scholarships transferred to the U.G.C. from the Ministry of Education. p.138
- Item No.39: To consider a proposal from the University of Delhi for assistance from Ford Foundation for the development of University Law Faculty. p.139

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Confidential

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 37 : To receive a reference from the Government of India regarding visit of members of the Foreign Diplomatic and Consular Missions to educational institutions in border regime of India.

.....

The Government of India, Ministry of Education have pointed out that certain instances have come to their notice where the educational institutions including universities have made arrangements for the visits, lectures etc., by members of Foreign Diplomatic and Consular Missions in India in certain border regions of the country where entry into and residence in of foreigners is regulated in terms of the Foreigner (Protected Areas) Order, 1968 and the Foreigners (Restricted Areas) Order, 1963 without obtaining prior clearance from the Central Government. Nagaland, Manipur, Assam, NEFA, certain parts of U.P., Himachal Pradesh etc., come within the purview of these orders. The Government of India are placed in an embarrassing position when they are approached by the Foreign Missions concerned for securing necessary permit enabling their officials to visit protected areas or restricted areas in response to invitations by educational institutions. The Government of India have suggested that the University Grants Commission may bring this to the notice of the Vice-Chancellors, confidentially, so that there is better and more effective coordination.

The matter is placed before the Commission for consideration.

E.O(CD)/JS(A)

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UNIVERSITY GRANTS COMMISSION

Meeting :
Dated 6th March, 1968.

Item No.38 : To consider the terms and conditions of Research Training Scholarships transferred to the U.G.C. from the Ministry of Education.

The Commission, at its meeting held on November 2, 1967 considered the transfer of Research Training Scholarship scheme from the Ministry of Education to the U.G.C. and its merger with that of the U.G.C. Research Scholarship scheme and decided, inter-alia, that the scholarships awarded so far by the Ministry of Education be merged into the scheme of scholarships of the U.G.C. from the academic session 1968-69 and that the conditions for award of scholarships after the merger be the same as those of the existing scholarships awarded by the U.G.C.(Item No.16)

A question has arisen whether the rules and conditions of the Ministry of Education or the rules of the U.G.C. may be applied in the case of the research training scholarship schemes for the interim period between 1.1.1968 and the beginning of the academic session 1968-69.

It may be mentioned in this connection that the selection and release of scholars was recommended by the Universities and approved by the Ministry of Education in case of their scholarships, while this is done by the universities themselves in the case of U.G.C. Scholarships. The Commission does not require any probationary period while the Ministry of Education required a probationary period of 6 months. The Ministry of Education required a bond to be filled by the scholars and refund of the scholarship amount was necessary if the scholarship was relinquished by the candidate without valid reason. The U.G.C. does not have any such condition. Selection, release and filling up of resulting vacancies are left to the universities in the case of U.G.C. scholarships, while these had to be approved by the Ministry of Education, in the case of their scholarships. A comparative statement of the rules of the Ministry of Education and the U.G.C. in respect of their respective Research Scholarships is given below:

	<u>Ministry of Education</u>	<u>University Grants Commission</u>
Duration	Three years, No provision for extension.	Two years with possible extension to the third year.
Period of probation.	Six months probation.	No probationary period.
Bond.	Provision for bond and refund.	No bond or refund.
Selection and Release.	Selection and release on special grounds to be approved by the Govt. of India.	Selection, release and filling up of resultant vacancy to be done by the University.

The matter is placed before the Commission.

E.O.(S)/D.O.(H)

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UNIVERSITY GRANTS COMMISSION

Meeting:
Dated 6th March, 1968.

Item No. 39 : To consider a proposal from the University of Delhi for assistance from Ford Foundation for the development of University Law Faculty.

....

The University of Delhi has asked for the approval of the U.G.C. in principle to the University accepting Ford Foundation assistance of the order of \$ 1 million for the development of University Law Faculty, in addition to the assistance of \$ 5 million already allocated to the University with the concurrence of the University Grants Commission and Ministries of Finance and Education. A copy of the note on the Development of the Law Faculty, containing the proposals for implementation is attached. The University has further intimated that the details of the utilisation of this grant, including the question of rupee expenditure involved in this regard would be referred to the Commission for clearance, when the requisite details have been worked out.

In this connection, it may be pointed out that the Commission had agreed to the construction of the Law Faculty building in the Delhi University at an estimated cost of Rs. 6,89,577. Against this, an amount of Rs. 6,79,000 has already been paid to the University. Besides, the Commission had also agreed to provide assistance to the University for furniture for the Law Faculty building at an estimated cost of Rs. 82,749. Against this, the Commission has released a grant of Rs. 72,000 so far.

The matter is placed before the Commission for consideration.

E.O(CD)/JS(A)

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~~SECRET~~

UNIVERSITY OF DELHI
(Planning Unit)

DEVELOPMENT PROPOSALS IN RESPECT OF THE FORD FOUNDATION GRANT TO BE OFFERED TO THE LAW FACULTY FOR A FIVE YEAR DEVELOPMENT PERIOD.

With the advent of Independence and Government under the Constitution the role of the lawyers and of the law courts in India was completely transformed. Instead of making simple determinations regarding guilt or innocence in criminal cases or in determining the obligations of litigants in civil cases the courts were required under the changed state of circumstances to decide whether the country could introduce a comprehensive land reform, set up and develop the public sector in industries, guide the course of trade with foreign countries and in short take any of the major decisions on questions of economic and social policy. In the words of Dr. Chief Justice Gajendragadkar (Page 2 of the Report of the Committee on the Reorganisation of Legal Education in the University of Delhi).

" In this context, law has ceased to be merely a command of the legislature or the monarch. Its functional aspect has assumed significance and it seeks to work as a flexible instrument of socio-economic revolution. It is a social institution, democratically evolved for achieving the object of making social adjustments to meet the challenge which incessantly flows from unsatisfied legitimate human desires and ambitions. As observed by Morris Cohen, law is thus a science of Social adjustment, its main object being to establish socio-economic justice and remove the existing imbalance in the socio-economic structure".

This new role and significance of the law required a new orientation, content and approach to legal education. It was the unanimous view of experts that unless a legal education programme suited to the new conditions of life was immediately adopted, democratic institutions in the country and the Constitution itself would be in danger. The existing law schools, and the content and quality of the legal education they imparted were sadly deficient in this regard. In the words of Mr. Chief Justice Gajendragadkar, again: (Page 4 of the said Report)

"The fact that eminent lawyers and Judges have been produced in India, cannot be taken as evidence of the soundness of legal education that they received; it may well be that this country produced eminent lawyers and eminent Judges not because of the legal education they received at our Universities, but may be, in spite of it. The fact, however, remains that juristic thought and juristic learning have yet to be developed in this country, and in the context of today, the problem of guiding democratic endeavour by juristic ideology and philosophy is of such importance that the need to improve our legal education can be literally described as the crying need of the hours".

It was in the light of this background that the Vice-Chancellor of the University of Delhi constituted a committee of six lawyers and law teachers headed by Mr. Justice P. B. Gajendragadkar to "study the problem of reorganisation of legal education in the University of Delhi and recommended the lines of reorganisation. The committee in its report (already circulated) made a number of important recommendations and urged,

"We trust that the problem which we have been asked to consider will receive the prompt attention of the Delhi University and our recommendations will be examined and implemented without unnecessary delay".

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I am happy to state that the recommendations of the Gajendragadkar Committee have not only been considered and approved by the various authorities of the University including, of course, the General Body of the teachers of the Faculty, but also a number of these recommendations have already been implemented. As recommended by the Committee, the Delhi University has instituted, with effect from July, 1966, a three-year LL.B. Course thus giving lead to the entire country in this direction. The new courses have been organised on entirely modern lines. The number of compulsory subjects has been very greatly reduced leaving room for a large number of optionals. In this regard we have even gone beyond the extent suggested by the Bar Council of India; and it is a matter of gratification that ultimately the Bar Council of India have themselves altered their directions to accommodate our courses. A number of new, what are called bread and butter courses like Labour Law, Taxation and Business Organisation have been added. The old courses both compulsory and optional have been revamped and presented in more scientific combinations. In short, we have fully met the grievance expressed in the Report of the Gajendragadkar Committee that "the syllabus prescribed by a majority of the Faculties of Law in India continues to be substantially the same as was prescribed nearly sixty years ago....", and implemented their recommendation that "... it is time that our Faculties of Law examine the problem of syllabus rationally and carefully,..... Subjects prescribed for study should also be rationalised and regrouped and reoriented, and in choosing subjects from term to term care must be taken to have a synthetic view of the ultimate aim and object of legal education and subjects chosen term by term on that basis".

Further the courses have now been organised on a term basis so that after the end of every half year (one term) there is a university examination in the courses taught during the term and the student either clears the subjects or is declared to have failed in them.

So the methods of teaching and examination have been radically changed in terms of the recommendations of the Committee. There has been a great emphasis on the discussion method of teaching in most courses. The student under this method is supplied with reading material in advance of the lecture. He reads this material without the help of the teacher and as a preparation for the lecture which is to follow. In the lecture attempt is made by the teacher to involve the students in an intelligent discussion of the material he has studied with a view to bringing home to the student the points and implications that he might have missed. The great superiority of this method of teaching and its success in the Faculty is, I believe, evidenced by the quality of the question papers which we are now able to set for the students. Experts who have seen these Question Papers have unhesitatingly agreed that they indicate a remarkable advance in the effectivity of instruction.

Another important recommendation of the Committee that the teacher should himself examine the students he has taught in a particular course has also been implemented.

In short, it can be said with confidence that practically all the recommendations of the Gajendragadkar Committee which it was within the power of the Faculty to implement without incurring expenditure of money have already been implemented progressively beginning from July, 1966. As a result of this the Faculty, it may perhaps be said, is already an institution entirely different from what it was a couple of years ago and from any other Faculty of Law in this country. However, this is only the beginning, and a number of important recommendations of the Committee remain to be implemented. The implementation of these is an integral part of the transformation of the quality of the Faculty as contemplated by the Vice-Chancellor and the University when they appointed the Gajendragadkar Committee. And this implementation requires expenditure of money.

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In order to effect a change in the teaching methods of the Faculty it has been considered necessary and desirable that a number of teachers from the Faculty, especially those who had not had the experience of witnessing the teaching in highly advanced foreign Universities should have the opportunity of visiting those foreign Universities and acquire experience of their teaching methods. Similarly, for some-time one or two foreign teachers should be invited from those Universities every year as Visiting Professors to this Faculty in order to participate and assist in the teaching programme here. For this purpose it is proposed that the Ford Foundation may be approached to provide funds as indicated in items (1) and (2) in the proposed budget.

The Gajendragadkar Committee had recommended that in order to attract scholars of good quality to the Faculty of Law from the various parts of the country it should be necessary to provide handsome scholarships. Also new course materials must be evolved and distributed to the scholars possibly free of cost during the earlier parts of the programme. For these purposes a sum of about 30 lacs of rupees will be required over the next five years. A substantial part of this amount is proposed to be asked for from the Ford Foundation as indicated in item No. (3) of the proposed budget.

The Committee has rightly emphasized the need for having a properly equipped library for the Faculty. As pointed out in the report of Professors Von Mehren, Tripathi and Willcox, "at the present time, the Delhi Law Library is inadequate in every respect; holdings, reading and stack rooms, procurement, and administration". In order to equip the Library properly, apart from the building requirements, a sum of Rs. 10 lacs will be required at the minimum. A major part of this sum is proposed to be asked for from the Ford Foundation as indicated in item No. (4) of the proposed budget.

Lastly as mentioned in the report of the three Professors, the present Law Faculty Building though more commodious than the one the Faculty occupied before November 1965, is still inadequate for its present's need. In the first place, because of the introduction of the three-years course, which was not contemplated when the present building was planned, the number of students in the Faculty would go up to 1200 as against 750 under the two-year course. Secondly, because of the large number of options and new courses the number of rooms required even for the same number of students will be greatly increased. And finally, the new methods of teaching require the students to sit and work for several hours daily in the Library. At present the Library Hall can accommodate hardly 100 students at a time. What is needed is a Library Hall which can accommodate 400 to 500 students at a time. Besides, the Library Stack Rooms also will have to be greatly increased in view of the proposed development of the Library by an investment of about 10 lacs of rupees in books and periodicals. It is also felt necessary to have a hostel situated on or very close to the premises of the Faculty where law students could be accommodated so that they may be able to live in the vicinity of the Library and under the constant influence of the teaching Faculty. In view of these requirements the committee of the three Professors already referred to (report already circulated) suggested that a new building with properly planned class-rooms, teachers, offices, and library and hostel accommodation should be provided. A major part of this sum is proposed to be asked for from the Ford Foundation as indicated in item No. (5) of the proposed budget.

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DETAILS OF THE PROPOSED BUDGET FOR THE GRANT TO BE PROCURED THROUGH THE FORD FOUNDATION FOR A FIVE YEAR DEVELOPMENT OF THE FACULTY OF LAW:

Head of Expenditure	Total Budget (in dollars)	Amount already promised by Ford Foundation	Balance to be nego- tiated,
1. International Consultants including travel and programme support.	2,67,000	1,07,000	1,60,000
2. Foreign study Fellowships	202,500	81,000	121,500
3. Scholarships to Law Students.	120,000	48,000	72,000
4. Acquisition of Library Materials.	105,000	75,000	30,000
5. Construction of a suitable Law Faculty Building and Hostel on a matching basis.	450,000	100,000	350,000
6. International architectural services.	45,000	30,000	15,000
Totals	1,189,500	441,000	748,500

(Note of explanation: the figures in the second column represent amounts to cover a two-year programme, whereas the figures in column one represents amounts to cover a five-year programme which will enable the law faculty to go farther in its development scheme).

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated 6th March, 1968

Item No. 40: To consider further the proposal from Delhi University for assistance from the Ford Foundation for the development of University and Departmental Libraries.

The University Grants Commission at its meeting held on 6/7th December, 1967 were informed that the creation of the under-mentioned posts for the University Library for the Fourth Plan period for utilizing an assistance of \$ 2,50,000 from the Ford Foundation for the development of University and Departmental libraries had been agreed to.

Professional Junior	1
Professional Assistants	4
Semi-Professionals	2
Senior Assistants	2
Clerks	3
Attendants	2
Cleaners	4

The University had been requested to consider if the expenditure involved during the Fourth Plan period could be met from out of 70 per cent of the allocation made to the University for the Fourth Plan period.

The University of Delhi has now intimated that it would not be possible for them to adjust the expenditure on the posts indicated above from out of 70 per cent of the allocation made to the University for the Fourth Plan and that funds to the extent necessary may be provided to the University over and above the Fourth Plan allocation. In addition, the University would also require another grant of Rs.12,000 per annum for stationery and supplies etc. for utilizing the Ford Foundation Assistance. The estimated expenditure on the posts sanctioned works out to Rs.62,000 per annum and the total requirement of the University for the additional staff, stationery and supplies etc. for three years i.e. 1968-69 to 1970-71 would be of the order of Rs.2,22,000 (Rs.74,000 per year).

The matter is placed before the Commission for consideration.

E.O.(CD)/J.S.(A)

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UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 6th March, 1968.

Item No: 41 : To consider the proposals from the Delhi University for instituting new Courses in the Constituent Colleges of the University from the Academic Year 1968-69.

The University of Delhi has sent the following proposals for starting new Courses in the constituent Colleges from the Academic Session 1968-69 subject to the fulfilment of certain conditions as indicated below for the acceptance of the University Grants Commission :

<u>College</u>	<u>Course</u>	<u>Conditions attached</u>
1. Daulat Ram College	B.Sc. (General) i) Group 'B'	Initial intake of 80 students and provision to take full load of 120 students at a future date. ii) Provisional permission to be confirmed by the University after formal inspection of the College Laboratories in the middle of May, 1968. A statement indicating the College-wise distribution of seats for B.Sc. (General) Group 'B' at different Colleges affiliated to the University for 1968-69 is attached (Appendix I) ✓
2. Delhi College	M.A. in Bengali	Instruction for the Course including tutorials to be provided in the Deptt. of Modern Indian Languages in the University and the College to remit fees charged from the students registered for the Course to the University.

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<u>College</u>	<u>Course</u>	<u>Conditions attached</u>
3. Kirorimal College	B.A. (Pass) in/ Commerce	<p>The College would appoint a Lecturer in Commerce in the first year of the Course i.e. 1968-69.</p> <p>ii) The College would appoint another Lecturer in Commerce in the third year of the Course i.e.. 1970-71.</p> <p>iii) The College would provide for an ad hoc grant of Rs:10,000 to be spread over three years and an adequate recurring grant for purchase of books on Commerce</p>

The grant for non-recurring expenditure for equipment books and construction of Laboratory Building in respect of B.Sc. (General) Group 'B' is paid by the Commission to the Colleges on a sharing basis of 75:25. The assistance for non-recurring expenditure on Library Books (general) is provided on a 50:50 basis. The expenditure on the salary of teachers is treated as "approved expenditure" for purposes of 'Maintenance Grant' on condition that the number of teachers does not exceed the prescribed limit according to the teacher-pupil ratio laid down by the Commission.

The matter is placed before the Commission for consideration.

E.O. (CD) / J.S. (A)

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APPENDIX I to Item No.4

The following is the College-wise distribution of seats for B.sc. (General) 'A' and 'B' Groups in the different Colleges affiliated to the Delhi University for the year 1968-69 :-

<u>Colleges</u>	<u>Number of Seats</u>	
	<u>Group 'A'</u>	<u>Group 'B'</u>
1. St. Stephen's College	60	-
2. Hindu College	60	-
3. Ramjas College	60	-
4. Kirori Mal College	120	-
5. Hans Raj College	120	40
6. Miranda House	-	40
7. S.G.T.B. Khalsa College	60	40
8. Deshbandhu College	60	40
9. Dyal Singh College	120	-
10. Sanatan Dharma College	120	-
11. Shyam Lal College	120	-
12. Rajdhani College	40	-
13. Hastinapur College	40	-
14. Netaji Nagar College	-	40
15. Dev Nagar College	-	80
16. Narela College	60	-
17. Shivaji College	40	40
18. Daulat Ram College	-	80 (Provisional)
	<u>1080</u>	<u>400</u>