

CONFIDENTIAL

## UNIVERSITY GRANTS COMMISSION

....

Minutes of the 170th meeting of the University Grants Commission held on 14th & 15th July 1975 at New Delhi.

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The following were present:

Professor Satish Chandra	-	Vice-Chairman (in the Chair)
Shri K.N. Channa	-	Member
Dr. Ajit Mozoomdar	-	"
Professor R.S. Sharma	-	"
Professor Rais Ahmed	-	"
Professor S. Gopal	-	"
Professor M. Santappa	-	"
Dr. Amarjit Singh	-	"
Professor J.B. Chitambar	-	"
Professor B.M. Udgaonkar	-	"
Shri R.K. Chhabra	-	Secretary

Shri K.T. Chandy could not attend.

SECRETARIAT

Dr. D. Shankar Narayan	-	Addl. Secretary
Dr. J.N. Kaul	-	Joint Secretary
Dr. S.K. Dasgupta	-	Joint Secretary
Shri S. Viswanath	-	Deputy Secretary
Shri I.C. Menon	-	Deputy Secretary
Dr. S.C. Goel	-	Deputy Secretary
Dr. M.L. Mehta	-	Deputy Secretary
Dr. T.N. Hajela	-	Deputy Secretary
Shri Y.D. Sharma	-	Deputy Secretary
Shri R.P. Bhattacharjee	-	Finance Officer

PART I

Item No.1: To receive the minutes of the meeting of the Commission held on 2nd June 1975.

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The minutes of the 169th meeting of the Commission held on 2nd June 1975 were confirmed, subject to the following:

Item No.(6) The first two sentences may read as follows:

"The Commission noted the recommendations of the Planning Group. It was further noted that during 1974-75 it had become necessary to re-appropriate, purely as a temporary measure, for ways and means purposes, a sum of Rs.1.03 crores from Plan to Non-Plan expenditure."

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

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The Commission approved the action on items listed in Appendix I\*.

During the discussions, the following points emerged:

2(a)(8): It was suggested that in cases of specific projects accepted by the Commission and where both non-recurring and recurring grants have been approved, care should be taken to see that implementation is taken up in respect of both items simultaneously.

2(a)(11): It was noted that criterion no.2 for selecting non-Cosip colleges for participation in the COHSIP was as follows:

If a college scores zero in the grading system for not having Ph.D. or 1st class M.A., on its staff, it may still be considered for selection, other conditions being the same.

It was noted that a consistently good academic record of the teaching staff would be a better criterion than Ph.D. and first class postgraduate degree considered in isolation.

2(a)(19): It was noted that the posts created under National Education Survey Scheme were temporary and for the duration of the Survey only and that persons promoted against these posts would not claim any title on that account for regular appointment against these posts, after the Survey is completed.

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 2nd June 1975.

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The Commission approved the grants released after the last meeting of the Commission held on June 2, 1975 (Appendix II).

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\* Not enclosed



Item No.4: To receive a statement of expenditure incurred by the University Grants Commission during 1975-76 upto 31st May, 1975.

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This was noted.

Item No.5: To receive a statement indicating the progress of issue of utilisation certificates during the period ending 15.6.1975.

...

This was noted.

Item No.6: To consider the reports of the UGC Visiting Committee to Universities of Andhra, Osmania and Sri Venkateswara and P.G. Centres at Guntur, Warangal and Anantapur.

) Decision recorded in Part II of the minutes

Item No.7: To consider further the reports of the UGC Visiting Committee to the Universities of Cochin, Calicut and Kerala.

Item No.8: To consider the reports of the UGC Visiting Committee to the Universities of Utkal, Sambalpur and Berhampur.

Item No.9: To consider further the report of the Committee on Hamdard College of Pharmacy, Delhi University.

...

The Commission agreed that assistance may be provided to Hamdard College of Pharmacy, Delhi University, with effect from 1975-76 in accordance with the pattern laid down by the AICTE for B.Pharm. courses. It was noted that assistance would be provided to the College out of the funds available for technical education for the different items recommended by the Committee appointed by the Commission.

The Commission desired that Delhi University may frame necessary Statutes/Ordinances for appointment of Readers in this College.

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Item No.10: To consider the recommendation made by the Law Panel for equating LL.M. with the M.Phil. course for purposes of award of Scholarships.

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The Commission accepted the recommendation of the Law Panel that LL.M. course should be offered to whole-time students only and that such facilities should not be made available to part-time students. It was, however, desired that the views of the Universities may be invited on this matter.

The Commission decided that consequent upon the revision of scales of pay, the minimum qualification required for recruitment of Lecturers in the Faculty of Law and Law Colleges should be the LL.M. degree.

The Commission desired that the Law Panel may be requested to suggest the names of a few institutions which could be developed for creating adequate facilities for full-time LL.M. courses and the assistance that may be required by these institutions for running such courses.

Item No.11: To consider certain measures proposed by the Ministry of Education for the speedy disposal of unsold books produced by the various autonomous organisations functioning under its administrative control.

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Consideration of this was postponed to the next meeting.

Item No.12: To consider further the proposal of the Government of India for making National Service for a specified period as a pre-condition for the award of a degree.

...

The Commission agreed that it may be neither possible nor feasible to make the National Service for a specified period as a pre-condition for the award of a degree. Alternative methods (Appendix III) should be tried to realise the objectives of National Service Scheme.

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Item No.13: To consider a reference made by the Ministry of Education regarding the recommendations made by the evaluation committee on the National Cadet Corps appointed by it.

...

Consideration of this was postponed to the next meeting.

Item No.14: To consider a reference contained in the proceedings of the Vice-Chancellor's Conference of U.P. Universities held on 19th & 20th January, 1975 at Lucknow.

...

The Commission agreed that assistance for construction of Men's Hostels for colleges located in the backward areas may be on the basis of 75:25 (U.G.C. share 75%).

Item No.15: To consider further the question of providing assistance for development programmes to Teachers Training Colleges during the Fifth Plan period on the basis of the recommendations of Panel of Education.

...

The Commission agreed that assistance to teacher training colleges may be provided within a ceiling of Rs.1.5 lakhs as UGC's contribution during the Fifth Plan period, on the following basis:

Name of the Scheme	Pattern of Assistance		
	Contribution by UGC	Contribution by college/ State Govt.	
Extension of libraries and laboratories, including furniture and fittings.	50%	50%	In the case of colleges in backward areas.
	33-1/3%	66-2/3%	In the case of other colleges.
Purchase of books and equipment	75%	25%	
Additional staff for improvement of practice teaching.	100%	-	
Developing teaching materials and audio-visual aids.	100%	-	

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Item No.16: To consider further the question of eligibility of colleges already brought within the purview of UGC Act to receive Commission's assistance under various programmes.

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It was noted that a large number of colleges have remained temporarily affiliated to the universities for long periods. The Commission desired that reasons for such continued temporary affiliation may be ascertained and the concerned universities requested to indicate when such colleges are expected to be given permanent affiliation.

Item No.17: To consider further the question of recognition of Autonomous Colleges.

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The Commission noted the present position regarding the question of declaring colleges as 'Autonomous' by the universities. The Commission desired that in the light of the discussions held at the meeting, the universities concerned may be addressed to initiate urgent action in this regard.

Item No.18: To consider the question of giving assistance to affiliated colleges for improvement to undergraduate facilities under 5 lakhs scheme during Fifth Plan Period.

...

The Commission agreed that in the case of colleges located in the backward areas, as defined by the Planning Commission, the eligibility conditions with regard to enrolment and the faculty strength for purposes of assistance under the Colleges scheme (Rs.5 lakh scheme) may be as follows:

	- Minimum	
	<u>Enrolment</u>	<u>Faculty strength</u>
Three-Year Degree Course	300	15
Two-Year Degree Course	200	10

The Commission was not in favour of any relaxation of condition of minimum enrolment/faculty strength in the case of women's colleges located in other areas.

The Commission desired that proposals received from the colleges may be initially processed for assistance within the first priority of Rs. 3 lakhs in accordance with general guidelines and limits of assistance for different purposes,

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Item No.20: To consider the question of providing financial assistance to full-time Research Scholars/Junior Research Fellows working in universities and colleges for visits abroad either in connection with the research work or for attending international conferences.

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The Commission desired that a detailed note giving the present practice of providing assistance to teachers/Research Scholars to attend international conferences and for visits abroad for collecting materials may be placed before the Commission.

Item No.21: To consider a note on the implementation of the UGC Scheme for the preparation of university level books by Indian Authors.

...

Consideration of this was postponed to the next meeting.

Item No.22: To consider the question of relaxing the condition of minimum enrolment in the case of colleges situated in backward and rural areas under the scheme of setting up of Book Banks in Colleges.

...

In view of the need for providing Book Banks to most of the colleges, the Commission agreed that colleges which have an enrolment of not less than 100 and not more than 249 in degree classes may also be assisted for establishing Book Banks. The assistance to such colleges will be limited to Rs.8,000/-, on usual sharing basis (U.G.C. share Rs.6,000).

It was also mentioned that some of the Nationalised Banks have a scheme for providing assistance towards Books Banks. The Commission desired that information in this regard may be obtained and placed before the Commission.

Item No.23: To consider proposal of the Roorkee University for enhancement of the value of stipend paid by the university to the students selected for training at Water Resources Development Training Centre.

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The Commission regretted its inability to accept the proposal of the Roorkee University to increase the

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already agreed to by the Commission. In such cases, in addition to the information sought for in the proforma, the colleges may be requested to provide the following information:-

- (a) Qualifications and experience of the teaching staff.
- (b) Examination results.
- (c) Expenditure incurred by the Colleges in the previous year towards:
  - (i) salary and allowances of the teaching staff.
  - (ii) Salary and allowances of the non-teaching staff.
  - (iii) library books and journals (Recurring).
  - (iv) maintenance of Laboratories (Recurring).
  - (v) other expenses (Recurring).
- (d) Total income.
- (e) Qualification of Librarian.

The Commission desired that in case of accepted proposals, grants beyond Rs. one lakh should not be sanctioned for payment unless the college has provided the above information.

Proposals which required assistance beyond the initial assistance of Rs. 3 lakhs may be placed before the Commission.

In this connection, it was agreed that universities/ State Governments be requested to set up a machinery to continuously review the development of the colleges and proper utilisation of development grants available to them.

Item No.19: To consider the question of providing grants to the Departments of Special Assistance for Fellowship awards beyond the Fifth Plan Period.

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The Commission agreed that fellowships awarded by the Department under the scheme of 'Special Assistance to Departments' upto 1978-79 may be permitted to complete their full duration and that necessary assistance be provided even after 31st March, 1979 to cover expenditure on this account.

value of the stipend paid to the sponsored students for training at the Water Resources Development Training Centre. The University, may however, request the agencies which sponsor such in-service personnel for training to provide for the enhanced stipends.

Item No.24: To consider a proposal of the Aligarh Muslim University for continuation of the scheme of Personal Promotions of teachers in the Central Universities.

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Consideration of this postponed to the next meeting.

Item No.25: To consider the proposal of Pachaiyappa's College, Madras for assistance towards the construction of Second Non-Resident Students Centre which was undertaken without prior approval of the Commission in the matters.

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In view of the circumstances explained by the Pachaiyappa's College, Madras, the Commission agreed to provide an assistance of Rs.35,000/- to the College for the construction of second Non-Resident Students' Centre.

Item No.26: To note the date and place for the next meeting of the Commission.

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It was noted that the next meeting of the Commission will be held at New Delhi on 11th and 12th August, 1975.

Item No.27: To consider the report of the Visiting Committee to Rabindra Bharati University.

Item No.28: To consider the report of the Visiting Committee to Kalyani University.

) Decision recorded in Part II of the Minutes.

Item No.29: To consider the report of the Committee appointed by the Commission to examine the proposal of the Kerala University for obtaining Computer facilities.

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The Commission accepted the proposal of the Kerala University for purchase of a computer of the level of TDC-16 system at an estimated, non-recurring cost of Rs.21 lakhs, and installation expenditure not exceeding Rs. one lakh. The recurring cost involved for maintenance and staff of the computer centre may be decided in consultation with the Standing Committee on Computers.

Item No.30: To consider the report of the Committee appointed by the Commission to examine the proposal of the University of Poona for the development of Computer facilities.

...

The Commission accepted the proposal of the University of Poona for the development of a Computer Centre jointly with the National Chemical Laboratory, Poona and the Engineering College, Poona. It was noted that the actual cost of the computer system and also the recurring costs for staff and maintenance of the computer centre would be shared equally by the three participating institutions. The Commission's share towards purchase of the computer and its installation would be about Rs.20 to 25 lakhs. The extent of recurring assistance that may be required may be decided in consultation with the UGC Committee on Computers.

Item No.31: To consider the basis of assistance for the development of postgraduate studies in the Humanities including Social Sciences and Sciences in the colleges during the Fifth Plan period.

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The Commission desired that this item may be brought up at its next meeting alongwith the proforma in which the proposals would be invited from the colleges.

The Commission further agreed that in the meanwhile basic grants for, (a) purchase of scientific equipment and (b) library books and journals, may be provided to such colleges which had been assisted during the Fourth Plan period. The basic grants so provided to these colleges would be taken into account towards the ceiling grant to be determined for the Fifth Plan.

Item No.32: To consider the proposal from the Delhi University for financial assistance for the reconstruction of Auditorium of the Lady Shri Ram College for Women, New Delhi.

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The Commission agreed to provide assistance to Lady Shri Ram College, Delhi University towards fittings, furniture and equipment of the auditorium on the condition that the College would undertake to repair the auditorium building out of its own resources.

Item No.33: To consider certain establishment matters of the University Grants Commission.

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(i) Recommendations made by the Committee appointed to work out the details for setting up "Documentation-cum-Evaluation and Planning Unit" in the University Grants Commission.

(ii) To consider the recommendations of the U.G.C. Standing Committee on Establishment Matters made at its meeting held on 8th July 1975.

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(i) The Commission accepted the recommendations of the Committee and agreed to the setting up of a "Research & Planning Unit" on the pattern suggested by the Committee with the following main functions:

- (i) Collection, compilation and presentation of different types of data relating to higher education.
- (ii) Undertaking analytical studies on the development and growth of higher education in the country and abroad.
- (iii) Preparing draft plans, projects and forecasts on the basis of the information collected from different sources.
- (iv) Monitoring and evaluation of on-going programmes.
- (v) Bringing out brochures, publications, etc. on different aspects of higher education.

The Commission also agreed to the creation of the following permanent posts in the office of the University Grants Commission in relaxation of the Government of India orders on the subject and desired that the concurrence

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of the Government of India may be obtained before the posts are filled up:

<u>S.No.</u>	<u>Designation of the post.</u>	<u>Scale of pay</u>	<u>No. of post(s)</u>
1.	Experts	Rs.2,750 (fixed)	3
2.	Consultants	Rs.2,250 (fixed)	3
3.	Senior Statistical Officer	Rs.1200-50-1600	1
4.	Junior Statistical Officer	Rs.840-40-1000-EB-40-1200	2
5.	Senior Librarian	Rs.700-1300	1
6.	Documentation Officer	Rs.700-1300	1
7.	Senior Statistical Assistant	Rs.550-25-750-EB-30-900	2
8.	Statistical Assistant	Rs.425-15-500-EB-15-560-20-700	3

The Commission further agreed that the supporting staff on professional and secretarial side for the proposed Unit as well as in the Library and the Information and Statistics Division may be determined for creation of additional posts and provided as and when the need arises keeping in view the report of the Staff Inspection Unit.

(ii) (a) The Commission accepted the recommendations of the Standing Committee on Establishment Matters and pending report of the Staff Inspection Unit agreed to the creation of the following posts in the office of the University Grants Commission in relaxation of the Government of India orders banning creation of new posts on an ad hoc basis initially for a period of one year with effect from the dates of filling the posts in order to meet its immediate requirements subject to concurrence of the Government of India:

<u>S.No.</u>	<u>Designation of the post</u>	<u>Scale of pay</u>	<u>No. of posts</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
1.	Deputy Secretary	Rs.1500-60-1800	1
2.	Education Officer	Rs.1200-50-1600	2

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1	2	3	4
3.	Assistant Secretary	Rs.1200-50-1600	1
4.	Assistant Editor	Rs.840-40-1000-EB-40-1200	1
5.	Production Assistant	Rs.550-25-750-EB-30-900	1

(b) The Commission accepted the recommendation of the Establishment Committee that pending an assessment by the Staff Inspection Unit, posts of one Book Production Officer (Rs.1200-50-1600) and one Junior Stenographer (Rs.330-560) already sanctioned by the Ministry of Education and Social Welfare may be revived and the existing sanctioned posts of one Assistant and one L.D.C./Typist may be upgraded to that of Section Officer (Grade II) (Rs.650-30-740-35-880-EB-40-960) and Junior Stenographer (Rs.330-10-380-EB-12-500-EB-15-560) respectively for the Ministry of Education & Social Welfare schemes of Production of Core Books and Fellowships Programmes and the National Award of Prizes to Indian Authors for original standard works of University level in Indian languages respectively.

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(c) The Commission accepted the recommendations of the Establishment Committee on the request of Shri M.R. Rao, presently working as Officer on Special Duty and while not accepting his representation desired that Shri Rao may be considered for the scale of pay of the post of Assistant Secretary in the U.G.C. as and when due in his turn at a point to be reckoned with reference to his notional seniority as Personal Assistant and subsequent stages, as per cadre rules and that such a revision of scale of pay of the post of Officer on Special Duty would be personal to him.

Item No.34: To consider the recommendations of the Science Research Council made at its meeting held on 11th July 1975.

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The Commission accepted the recommendations of the Science Research Council to provide assistance in respect of 179 projects at a cost of Rs.99,98,200 over a period of three years (Appendix IV)\*.

The Commission also accepted the other recommendations of the Science Research Council, as given in Appendix (V).

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\* not enclosed

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The Commission desired that the recommendations of the Science Research Council with regard to departmental projects in the three universities may be considered separately.

Item No.35: To consider the reports of the Visiting Committee to Jammu & Kashmir Universities to assess their needs for their Fifth Plan period.

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Decision recorded in Part II of the Minutes.

Item No.36: To further consider the recommendations made by the Committee of Vice-Chancellors of Central Universities at its meeting held on 23rd May 1975, regarding reservation of posts of various categories in the Central Universities to persons belonging to Scheduled Castes and Scheduled Tribes communities.

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The Commission accepted, in principle, that reservation may be provided for Scheduled Castes and Scheduled Tribes for recruitment to the posts of Lecturers in the Universities and Colleges and that the mechanics of such reservations may be worked out.

The Commission was of the view that in order that the teaching posts may not remain vacant for long periods, such reservations may not be operated on a roster system nor should the reserved posts be carried forward from year to year.

With regard to the reference from the Ministry of Education regarding reservation provided in the Kerala University Act, the Commission was of the view that as far as the teaching posts are concerned, reservations may be provided only for Scheduled Castes and Scheduled Tribes and not for other backward communities.

R.K.Chhabra  
Secretary

Satish Chandra  
Vice-Chairman.

UNIVERSITY GRANTS COMMISSION

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Proceedings of the 170th meeting of the University Grants Commission held on 14th & 15th July, 1975.

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P A R T II

Item No. 6 : To consider the reports of the UGC Visiting Committee to the Universities of Andhra, Osmania, Sri Venkateswara and the Post-graduate Centres at Guntur, Warangal and Anantpur.

The Commission considered the reports of the Visiting Committee to the Universities of Andhra, Osmania and Sri Venkateswara, and the Postgraduate Centres at Guntur, Warangal and Anantpur and Generally accepted the recommendations, subject to the following modifications :

I. OSMANIA UNIVERSITY

(a) Fellowships

The Commission was not in favour of allocating specific number of fellowships to each Department. It, however, agreed to provide a total of 25 fellowships in the first instance to be utilised according to the guidelines to be indicated by the Commission for the purpose.

(b) Department of Micro-biology

(i) Assistance recommended for this Department would only be available to the University if it organises a School of Biosciences as recommended in the report of the Visiting Committee and to include in it the Department of Microbiology also; and

(ii) The courses and research work in this Department should be related to local/regional needs in the areas of industrial microbiology, fermentation and also nutrition and be developed in collaboration with other R&D institutions in the region;

(c) Department of History

Besides Art History, the department may also specialise in Medieval History and this may be done by transferring the vacant post of Professor in the Department of Islamic Studies;

(d) The study of West Asian Studies should not be taken up by the Department of Islamic Studies;

(e) The Commission could not agree at this stage to provide assistance for the construction of residential accommodation for non-academic staff in the universities other than Class IV.

The Commission agreed to provide assistance during the V Plan to the University for non-recurring and recurring purposes as indicated in Appendix A.

## II. ANDHRA UNIVERSITY

(a) A total of 20 fellowships be provided in the first instance to be utilized according to the guidelines to be indicated by the Commission for the purpose;

(b) The postgraduate course to be started in the Department of Physics should be in the nature of a post-B.Sc. diploma course in radio and television technology and related electronic instrumentation.

The Commission agreed to provide assistance during the V Plan to the University for non-recurring and recurring purposes as indicated in Appendix B.

## III. SRI VENKATESWARA UNIVERSITY

The Commission agreed to provide assistance during the V Plan to the Sri Venkateswara University for non-recurring and recurring purposes as indicated in Appendix C.

## IV. POSTGRADUATE CENTRES AT GUNTUR, WARANGAL AND ANANTPUR

The Commission agreed to provide assistance during the V Plan to the Postgraduate Centres at Guntur, Warangal and Anantpur for non-recurring and recurring purposes as indicated in Appendices D, E & F.

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Item No. 7 : To consider further the reports of the UGC Visiting Committee to the Universities of Cochin, Calicut and Kerala.

/for The Commission considered the reports of the Visiting Committee to the Universities of Cochin, Calicut and Kerala and agreed to provide grants/non-recurring and recurring purposes as indicated in Appendices G & H.

With regard to provision of reservation of teachers, see item No.36.

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Item No. 8 : To consider the reports of the UGC Visiting Committee to the Universities of Utkal, Sambalpur and Berhampur.

The Commission considered the reports of the Visiting Committee to the Universities of Utkal, Sambalpur and Berhampur and agreed to provide assistance for non-recurring and recurring purposes as indicated in Appendices I, J & K.

The other specific suggestions made by the Commission are given below:-

I. UTKAL UNIVERSITY

(a) The proposed Centre of Regional Studies at the Utkal University may take up forward looking and modern projects especially those related to the socio-economic and educational development of the tribal population. The social science departments of the University have to play a major role in this programme. It would, therefore, be advisable if a few social scientists having background and knowledge of tribal problems are associated with the Planning Committee to be set up to work out the programme of researches and studies for this Centre;

(b) The Department of Analytical and Applied Economics and that of Labour Welfare may initiate programmes and undertake projects of practical value, in consultation with the State Planning Department. It would be more useful if these departments keep themselves in close contact with the Welfare and Planning Departments of the State Government and reframe their courses of studies in such a way as to fulfil the requirements of personnel of these departments. The Department of Analytical and Applied Economics should take up new areas of research and projects which may be relevant to the developmental needs of the region;

(c) The Department of History at the Utkal University may give special emphasis on exploring the modern regional history. The post of Reader (with specialisation in archaeology) recommended by the Committee for the Department of Anthropology will be attached to the Department of Anthropology but the person appointed will also help the Department of History in archaeological excavations;

(d) The Department of Physics of the University may establish suitable collaboration programmes in matters of teaching and research with the Institute of Physics, established on the campus of the University.

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## II. BERHAMPUR UNIVERSITY

(a) The Commission could not accept the recommendation of the Visiting Committee for providing assistance to the Berhampur University for the establishment of the Department of Journalism;

(b) The University may obtain expert advice for organisation of courses in marine biology, from institutions such as the National Institute of Oceanography, Goa; and the Centres of Advanced Study in Marine Biology, Annamalai University; and Cochin University. The courses should have relevance to the local problems of marine ecology and marine productivity and should include appropriate project work also.

## III. GENERAL OBSERVATIONS

(a) The Commission further desired that all the three Universities be advised that the number of teaching periods may be cut down as recommended by the Visiting Committee and the number of tutorials/seminars be increased. The number of tutorials/seminars conducted by each teacher should be included in the teaching load of the teacher concerned by the University/State Government;

(b) It would be in the interest of the Universities themselves that whenever a new department is to be set up, prior concurrence of the State Government is obtained.

Item No. 27 : To consider the report of the UGC Visiting Committee to Rabindra Bharati University.

The Commission considered the report of the Visiting Committee to Rabindra Bharati University. In this connection, the Commission also considered a letter from the State Government suggesting that though the Commission may examine the developmental schemes of the Universities located in West Bengal, before approving any of such schemes, the position relating to availability of funds from the State Government after cessation of grant from the UGC may be ascertained from the State Government itself. The Commission could not accept the suggestion of the State Government and felt that the reports of the Visiting Committee may be examined and the decision of the Commission conveyed to the Universities and it is for the Universities themselves to approach the State Government for obtaining necessary assurance of commitments for meeting the matching share and the liability of committed expenditure subsequently.



The Commission accepted the general observations made by the Visiting Committee to Rabindra Bharati and desired that the same may be communicated to the University. The Commission agreed that the West Bengal Government may be advised to set up a Committee as suggested in para 6.12 of the report of the Visiting Committee and in the light of the deliberations of that Committee, Rabindra Bharati may be advised to send revised V Plan proposals for the consideration of the Commission.

KALYANI UNIVERSITY

The Commission considered the report of the Visiting Committee to the Kalyani University and agreed to provide assistance during the V Plan to the University for non-recurring and recurring purposes as indicated in Appendix Mr.

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Item No. 3b : To consider the reports of the Visiting Committee to Kashmir and Jammu Universities to assess their needs for their Fifth Plan period.

The Commission considered the recommendations of the Visiting Committee to Kashmir and Jammu Universities and generally accepted the recommendations subject to the following modifications:

KASHMIR UNIVERSITY

- (a) The Commission could not agree to the setting up of new Departments of (i) Biochemistry, (ii) Geology, and (iii) the appointment of coaches;
- (b) The University may be advised to send a suitable proposal for setting up a Department of Geography to encourage studies in regional development;
- (c) The University may take steps necessary for the development of Kashmiri language and literature;
- (d) To begin with, steps may be taken for provision of teaching of Russian language only;
- (e) The staff and facilities of the Gulmarg Research Laboratory may be integrated with the Department of Physics and the question of organising courses in environmental physics may be examined with the help of an Expert Committee as suggested in the report;

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- (f) It was noted that a provision of Rs.12 lakhs (UGC share - Rs.6 lakhs) had been made in the recommendations for construction of a social sciences block. The Commission felt that before this is done, the possibility of utilizing part of the library building for accommodating the social sciences departments may be examined, and if necessary, the amount suggested could be utilised in the library for the purpose;

The Commission agreed to provide assistance during the V Plan to the Kashmir University for non-recurring and recurring purposes as indicated in Appendix N.

#### JAMMU UNIVERSITY

- (a) The Commission could not accept the recommendation of the Visiting Committee to the Jammu University for setting up Departments of Geography, Sociology and Panjabi.

The Commission agreed to provide assistance to the Jammu University during the V Plan for non-recurring and recurring purposes as indicated in Appendix O.

#### GENERAL RECOMMENDATIONS

On the basis of the consideration of the suggestions contained in the different reports of the Visiting Committees, the Commission felt that the following general aspects may be kept in view in the implementation of the programmes during the V Plan period in the universities :

1. It is essential to set up in each State an Inter-University Coordination body so as to make the best use of facilities and expertise available for co-ordinated development of the academic programmes in the State. This Inter-University Coordination body may consist of the Vice-Chancellors of the different Universities and representatives of the State Government. A representative of the UGC may be associated with it.
2. Each University may set up a Planning Board which would engage itself in a continuous review of the implementation of the various academic programmes in the University and also suggest measures to be taken to make these programmes relevant to the local needs. It may also suggest or constitute a separate committee to suggest measures to be taken for coordinating the development of higher education in the affiliated colleges of the Universities.

(21)

3. The Universities would be required to give due consideration to the various suggestions made in the reports of the Visiting Committees and by the Commission in respect of development programmes accepted to be implemented during the V Plan period. No change should be made either with regard to the items of expenditure accepted or as regards the specialisations suggested for different posts approved by the Commission. Wherever such changes are considered necessary, the University may approach the Commission with full justification.
4. Non-recurring and recurring items should both be taken up for implementation simultaneously.
5. The Commission would provide its share of actual expenditure in respect of recurring items, particularly academic and other positions approved from the date of appointment of such staff and up to the end of the V Plan period. Accordingly, there will be no savings which would accrue because of delays in appointments etc., which could be utilised for other purposes.
6. In view of the limited resources available to the UGC, the Universities be advised to explore the possibility of obtaining funds from Life Insurance Corporation of India, HUDCO, State Housing Corporations, etc., for construction of residential accommodation.
7. The Universities should not be encouraged to start M.Phil. courses unless the University Department concerned already has a well-organised postgraduate programme of teaching and research (Master's and Ph.D. degree courses). M.Phil. courses should be started only in such subjects where it is considered essential taking into account regional needs and existing facilities.
8. Where Universities desire to organise post-M.Sc. courses in specialised subjects, it would be appropriate to organise such courses as post-M.A./M.Sc. diploma courses. Where the Universities desire to organise vocational/job-oriented courses, such courses may be organised in consultation with the user agencies, industries, etc. and with the help of part-time staff.
9. Adequate provision may be made in the plans of all the universities as may be agreed to by the Commission for institution of certain number of junior fellowships and a specified amount to appoint Visiting Professors from within the country.
10. Where the Visiting Committees have recommended grants for publication within the plan allocation, the universities may utilise this amount in addition to the publication grant generally made available to all the universities by the Commission.

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11. Each University would be required to send to the UGC annually a detailed report indicating the progress made in the implementation of the V Plan programmes and with reference to the suggestions contained in the report. This report should be made available to the Commission not later than 30th June, each year.

OTHER RECOMMENDATIONS

1. The Commission may consider providing separate unassigned/publication grants to such Postgraduate Centres which are declared autonomous by the universities.

2. The Commission as recommended by the Visiting Committee for Andhra Pradesh may take up with the Central Government the question of removal of exemption from the Presidential order which restricts admission to students of the areas, particularly relating to postgraduate admission.

3. The observations made by the Visiting Committee with regard to the development of academic programmes in the newly established University of Hyderabad may be brought to the notice of that University.

4. A Committee may be appointed to look into the requirements of the Non-Academic staff of the Universities.

R.K. Chhabra,  
Secretary

Satish Chandra  
Vice-Chairman

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4. Another alternative would be the introduction of Practice School Education as at Birla Institute of Technology and Sciences, Pilani. During the course of the 5 years, at least for one summer after the 3rd year and one semester in the 5th year students are sent to Birla Institute of Technology and Sciences practice schools for training in an industry or social organisation or a research laboratory depending on a social organisation or a research laboratory depending upon the programmes. A miniature Birla Institute of Technology and Sciences is located in these places and they are called BITS Practice School Stations. Here the students work along with teachers (who also come to reside there with them) in learning the current practice in their professional field. This helps them to acquire a professional bias and gives them confidence to take up their profession immediately after passing out and be prepared to face the challenges of real life.

'CHUGH'

Appendix-III to the minutes of the U.G.C. meeting held on 14th & 15th July, 1975 (Item No.12).

Alternative methods for realisation of objectives of National Service Scheme.

One way to introduce this scheme would be to integrate it in the curricula, so that a student while undergoing training goes periodically to a village or backward area, acquaints himself with the new surroundings and with the problems which the people in these areas face. For this purpose, the period of short-term visits to the villages and other backward areas should not only be increased but should also be properly phased within the duration of professional course. The visits for the national service programme should not be less than a week at a time. The work under this scheme should spread over to the entire duration of the professional course. In the first year, the students could be given a short orientation course on developmental needs of the rural and backward areas. This professional competence can be used in the III and subsequent years.

In medical course, there is at present a provision for one year of compulsory internship. This period could be fruitfully utilised for national service by restructuring the training and practical programmes e.g. students may be required to work for a period of not less than six months in a primary health centre situated in a rural or backward area under the supervision of the district medical staff. For the rest of the year, opportunities may be provided to him in the district hospital and the hospitals attached to the medical colleges for practical training in other required areas, the syllabi may have to be suitably revised to accommodate the new programme suggested here.

In engineering course, 1/3 of the period prescribed for practical training may be devoted exclusively to national service. The design of the prescribed course of training may be suitably reoriented to the requirements of the National Service Scheme. The training design should be so formulated and implemented that the students are able to use their subject skills in appropriate activities in the national service programme.

1.	2.	3.	4.
No.	Name of the University.	Name of the Principal Investigator.	Title of the Project.
1.	AGRA (Sri Varshney College, Aligarh).	Dr. D.K. Gupta	Experimental Nuclear
2.	Jamru University.	Prof. I. Prakash.	Study in Phenomena in Energy Physics using chamber technique.
3.	Karnatak University.	Dr. C.V. Sath.	Theoretical Investigation supporting power for Pro
4.	Mysore University.	Dr. N.S. Murthy.	Molecular spectra of diat molecules.
5.	Roorkee University.	Dr. B.P. Singh.	Perturbed angular correlation studies of the radiations radio active decay.
6.	Annamalai University.	Sri S.K. Ramaswamy & Shri S.S. Swetnarayan.	Construction of Nier type single focussing mass spec

4.

5.

Microscope studies on  
oxidation & Alloying  
of rare earth metals and  
crystal structure of rare  
earth oxides.

Non-recurring  
Equipment. Rs. 35,000

Recurring  
Contingency,  
travels & consum-  
ables. Rs. 2,500/- p.a.

Total: Rs. 42,500 for 3 yrs.

SRF may be appointed from the  
'General Pool'.

Study of surface carrier mobility  
in semiconductors.

Non-recurring  
Equipment. Total: Rs. 1,45,000/-

Study of semiconductors and  
diodes by the electroless  
technique.

Non-recurring  
Equipment. Rs. 50,000

Recurring  
1 SRF Rs. 21,600  
Contingency. Rs. 2,500 - p.a.

Total: Rs. 79,100 for 3 yrs.

~~Study of crystallization kinetics  
of phase transition in Al<sub>2</sub>O<sub>3</sub>~~

~~Non-recurring  
Equipment. Rs. 20,000~~

Acoustic effects in plasma  
(and Gas).

Non-Recurring  
Equipment. Rs. 20,000

Recurring  
1 JRF Rs. 15,600  
Contingency &  
Travels. Rs. 2,500 - p.a.

Total: Rs. 48,100 for 3 yrs.



S IN SCIENCE SUBJECTS.

5.

Appendix V t:

Grant recommended

the Minutes of the  
UGC Meeting held on  
14th/15th July, 1975  
(Item No.34)

Microscopy.

Recurring  
Contingency Rs. 5,000 - p.a.  
Total: Rs.15,000 for 3 yrs.

in  
file

Salary of the existing staff from  
the DAE Project & additional  
grant of Rs.15,000/- p.a. for  
computation etc., from 1.4.1976  
onwards for 3 yrs.  
Total; Rs.75,000/- for 3 yrs.

ns on the  
tons.

Recurring  
1 JRF Rs.15,600  
Computation &  
travel etc. Rs. 5,000 - p.a.  
Total: Rs.30,600 for 3 yrs.

onic

Recurring  
1 JRF Rs.15,600  
Contingency. Rs. 3,000 - p.a.  
Total: Rs.24,600 for 3 yrs.

tion  
from the

Non-recurring  
Equipment. (Multi- Rs.1,50,000  
channel Analyser)  
(This equipment is to be  
used as a departmental  
facilities. Fellow may  
be taken from general  
pool).

10" 60"  
electroner.

The Panel recommended a grant  
of Rs.40,000/- for fabrication  
work. It was also felt that  
the comments of Prof.A.Ambasankar  
may be communicated to the  
Investigators.  
Total: Rs.40,000/-.

	2.	3.	
7	Banaras Hindu Univ.	Dr.O.N.Srivastava.	Electron the defor behaviour of the d earth ne
8.	Calcutta University.	Prof. B.R. Nag.	High Fie in semic
9.	-do-	Prof.A.N.Daw.	Metalli: dielect: plating
10.	<del>Delhi University</del>	<del>Dr. S. N. Ghoshal</del>	<del>Stability and other polymer</del>
11.	Jodhpur University.	Sri D.R. Gupta.	Electr (Ionise

1.	2.	3.	4.	5.
11.	Panjab University.	Dr. D.L. Dubey.	Radiation damage to proteins irradiated in dry state.	<u>Non-recurring</u> Equipment. Rs.13,000  <u>Recurring</u> 2 JRF Rs.31,200 Contingency.& Travel. Rs. 5,000 - p.a. Total: Rs.59,200 for 3 yrs. (Also extracts from referees' report (Dr.Mittals') may be communicated to Dr. Dubey).
12.	Roorkee University.	Prof. S.K. Joshi.	Electronic transport properties in noble and transition metals and their dilute alloys.	<u>Recurring</u> Research Associate, (Rs.700/- - Rs.1100). Rs.36,000 1 JRF. Rs.15,600 Contingency. Rs. 3,500 - p.a. Total: Rs.62,100 for 3 yrs.
13.	Sagar Univ.	Dr. J.D. Ranade.	Preparation of alkaline-earth binary oxides and their possible applications in research & industry.	<u>Non-recurring</u> Equipment. Rs.83,000  <u>Recurring</u> 2 JRF. Rs.31,200 Contingency. Rs. 3,000 - Total: Rs.1,23,200 for 3 yrs.
14.	Kurukshetra Univ.	Dr. Vikram Singh.	Studies of the electric, magnetic and optical properties of the alloys in the crystalline and non-crystalline states.	<u>Non-recurring</u> Equipment. Rs.15,000 <u>Recurring</u> Contingency. Rs. 9,000 - p.a. Total: Rs.24,000 for 2 yrs.
	Poona Univ.	Dr. K. Sathianandan	Fabrication of He-Ne Co <sub>2</sub> , N <sub>2</sub> and Ar Gases Lasers and Parameter Measurement.	1 JRF & other items earlier approved. Rs. 40,000/- for 2 years.

## CHEMISTRY

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S.No.	University	Name of Principal Investigator	Title of the Project and duration of the project.	Staff	Grant recommended
1.	2.	3.	4.	5.	6.
1.	Allahabad	Dr. M.P. Singh	Studies in kinetics and mechanism of oxidation of some organic compounds by some oxidants through one electron and two electron transfer processes.	1 S.R.F. 1 J.R.F. Contingency Total	Rs. 600 p.m. Rs. 400 p.m. Rs. 5000 p.a. Rs. 52,200 for 3 yrs.
2.	-do-	Dr. H.S. Singh	Mechanistic study of transition metal complexes catalyzed reaction between Ion & Dipolar molecules with special reference to structure & reactivity.	1 J.R.F. Contingency Total	Rs. 400 p.m. Rs. 3000 p.a. Rs. 24,600 for 3 yrs.
3.	Banaras Hindu University	Dr. S.N. Bhat	Electronic behaviour of biological materials	1 J.R.F. NR R Contingency Total	Rs. 10,000 Rs. 15,600 Rs. 3,000 p.a. Rs. 34,600 for 3 yrs.
4.	-do-	Dr. (Mrs) K. Rajeswari & Dr. K. Ranganayakulu.	The mechanism of rearrangement of cyclopropylallyl-cations.	1 J.R.F. Contingency Total	Rs. 400 p.m. Rs. 3000 p.a. Rs. 24,600 for 3 yrs.
5.	Bangalore	Dr. K.M. Sivanandaiah.	Synthesis of peptides of biological interest.	1 S.R.F. 1 J.R.F. Contingency Equipment Total	Rs. 600 p.m. Rs. 400 p.m. Rs. 7000 p.a. Rs. 36,000 (NR) Rs. 94,200 for 3 yrs.

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	3.	4.	5.	6.
6.	Bhagalpur	Dr. O.P. Jha & others	Chemical & Biological screening of medicinal plants of Bhagalpur for antifertility and abortifacient properties.	1 S.R.F. Rs.400 p.m. Contingency Rs.3000 p.a. Equipment Rs.7000 (NR) Total Rs.31,600 for 3 yrs.
7.	Bhopal	Dr. H.F. Agarwal and others.	Studies on electrode - solution interfaces.	1 S.R.F. Rs.600 p.m. 1 J.R.F. Rs.400 p.m. Contingency Rs.5000 p.a. Total Rs.52,200 for 3 yrs
8.	Calcutta	Dr. Samal A. Kundu.	Status of lipids & their compositional changes with vitamin deficiencies, protein calories malnutrition and diminished throid function.	1 S.R.F. Rs.600 p.m. 2 S.R.F. Rs.400 p.m. Equipment Rs.18000 Contingency Rs.10000 p.a. Total Rs.1,00,800 for 3 yrs.
9.	-do-	Dr. S. Mukherjee	Studies on regulation of Hypercholesterolemia & Hypertriglyceridemia in Humans & Experimental animals by 'Modified Butterfate	1 S.R.F. Rs.600 p.m. 1 J.R.F. Rs.400 p.m. Contingency Rs.5000 p.a. Total Rs.52,200/- for 3 yrs.
10.	-do-	Dr. K.M. Biswas	Synthesis reaction with screening of Indole derivatives having pharmacological & insecticidal properties.	2 J.R.F. Rs.400 p.m. Contingency Rs.5000 p.a. Total Rs.46,200 for 3 yrs.
11.	-do-	Dr. S.K. Talapatra	Chemistry of the Biologically active principles of the medicinals plants of North-East India	1 SRF Rs.600 pm 1 JRF Rs.400 pm. Contingency Rs.5000 pa Total Rs.52,200 for 5 yrs.

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3  
-6-

1.	2.	3.	4.	5.	6.	
12.	Calcutta	Dr. P. Bandhyopodhyay	Investigation on the co-ordination chemistry of biologically active transition elements with vitamins and related compounds	1 JRF Contingency Total	Rs.400 pm Rs.2500 pa Total	Rs.23,100 for 3 yrs.
13.	-do-	Dr. Premmoy Ghosh	Chemical modification of natural polymers and synthesis of graft copolymers therefrom with the objective of obtaining improved properties	1 SRF 1 JRF Contingency Equipment Total	Rs.600 pm Rs.400 pm Rs.5000 pa Rs.10000 (NR) Total	Rs.62,200 for 3 yrs.
14.	-do-	Dr. A. Banerjee	Reaction of heterocyclic compounds Studies on Alkaloids oxygen and nitrogen heterocycles, their transformations and synthesis	2 JRF Contingency Total	Rs.400 pm Rs.5000 Total	Rs.46,200 for 3 yrs.
15.	-do-	Prof. M.M. Chakrabarty.	i. Development of microanalytical techniques in the testing of vegetable oils based products with a view to use them for detection of adulteration.  ii. Studies on modification of natural fats for edible and other industrial purposes by intersterification and hydrogenation reactions.	1 SRF 1 JRF Contingency Equipment Total	Rs.600 pm Rs.400 pm Rs.5000 p.a. Rs.2000 (NR) Total	Rs.72,200 for 3 yrs.
16.	Delhi	Dr. V.K. Ahluwalia	Studies in photodynamically Active Compounds	1 S.R.F. 1 JRF Contingency Total	Rs.600 pm Rs.400 pm Rs.5000 pa Total	Rs.52,200 for 3 yrs.

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2.	3.	4.	5.	6.
17. Delhi	Dr. M.V.R. Rao	Investigations on the conformation and hydrodynamic behaviour of proteins and synthetic polypeptides	2 JRF Contingency Rs.5000 pa For equipment fabrication Rs.2000 (NR) Total	(For first area only mentioned in the project) Rs.48,200 for 3 yrs.
18. -do-	Prof. Harish C. Gaur	Thermodynamics and electro chemistry of Molten Salts	2 JRF Contingency Rs.5000 pa Total	Rs.46,200 for 3 yrs.
19. Gorakhpur	Dr. S.C. Tripathi Dr. S.C. Srivastava	Metal complexes of biological importance	1 SRF 1 JRF Contingency Rs.5000 pa Total	Rs.52,200 for 3 yrs.
20. -do- ( M.L.K. College, Balrampur)	Shri P.P. Singh and others.	Structural studies of metal Tetrathiocyanate and Hexa thiocyanate complexes	2 JRF Contingency Rs.5000 pa. Equipment Rs.2000 NR Total	Rs.66,200/- for 3 yrs.
21. Jadavpur	Dr. S.C. Bera	Spectroscopic investigations of perturbed molecules	1 JRF Contingency Rs.3000 pa Total	Rs.24,600 for 3 yrs.
22. Jodhpur	Dr. Akshyamal	Volatic metal complexes of transition and inner transition elements (Lanthanides & actinides)	1 JRF Contingency Rs.3000 pa Equipment Rs.5000 (NR) Total	Rs.29,600 for 3 yrs.

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1.	2.	3.	4.	5.	6.	
23.	Jodhpur	Dr. Sudhindra Misra	Reactions of co-ordinated ligands	2 RF Contingency Equipment Total	Rs.400 pm Rs.5000 pa. Rs.3000 (NR)	Rs.49,200 for 3 yrs.
24.	Kalyani	Prof. P. Sengupta	Chemical & Biological investigations of fungal metabolites.	2 SRF 2 JRF Contingency Equipment Total	Rs.600 pm Rs.400 pm Rs.7000 pa Rs.4000 (NR)	Rs.1,35,400 for 3 yrs.
25.	Karnatak	Dr. V.D. Fatil	i. The synthesis of some selected "substituted phenyl Benzimidazolyl sulphides, sulphones <sup>2</sup> and their dialkylami-noethyl derivatives.	1 JRF Contingency Equipment Total	Rs.400 pm Rs.3000 pa. Rs.15000 (NR)	Rs.39,600 for 3 yrs.
26.	Kurukshetra	Dr. S.M. Sawhney	ii. Synthesis of thiazol derivatives as potential anti-inflammatory agents.	1 JRF Contingency Total	Rs.400 pm Rs.3000 pa.	Rs.24,600 for 3 yrs.
27.	-do-	Dr. R.K. Nigam	Statistical thermodynamics of Binary mixtures of non-electrolytes.	1 SRF 1 JRF Contingency Total	Rs.600 pm Rs.400 pm. Rs.5000 pa	Rs.52,200 for 3 yrs.
28.	-do-	Dr. K.S. Sharma	Synthesis of pharmacological activity of Azasteroids	1 SRF 1 JRF Contingency Total	Rs.600 pm Rs.400 pm Rs.5000 pa.	Rs.52,200 for 3 yrs.
			ii. The synthesis of substituted phenyl exagolo-(5,4-d)Pyrimidine sulphides, sulphones, ethers and their power studies.(3 years)			



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1.	2.	3.	4	5	6.	
29.	Lucknow	Dr. A.K. Sengupta	Studies on potential pesticides insect hormones and their derivatives	2-JRF Contingency	Rs.400 pm Rs.5000 pa Total	Rs.46,000 for 3 yrs
30	Madras	Dr. P.S. Subramanian	Phytochemical studies on Indian Asclepiadeaceae constituents of <i>Leptadenia reticulata</i>	2-JRF Contingency	Rs.400 pm Rs.5000 pa Total	(to be reviewed after 2-years) Rs.46,200 for 3 yrs.
31	-do-	Dr. N.V. Subramanian, Ramakrishna Mission Vivekananda College, Madras	Preparation of Dimethyl sulfoxide from lignin waste	1 SRF 1 JRF	Rs.600 pm Rs.400 pm Rs.25000 for equipment and recurring expenditure for 1st year.	Total Rs.49,000/- for 2 years
32.	-do-	Dr. V.T. Ramakrishnan	Organic photochemistry	2 JRF Contingency Equipment	Rs.400 pm Rs.5000 pa Rs.15000 (NR) Total	Rs.61,200 for 3 yrs.
33.	-do-	Prof. S. Swamirathan	Chemistry of Natural products derived from Marine animals	1 SRF 1 JRF Contingency Equipment	Rs.600 pm Rs.400 pm Rs.5000 pa Rs.5000 (NR) Total	Rs.57,200 for 3 yrs.
34.	Nagpur	Dr. K.N. Munshi	Studies in some mixed ligand complexes of rare earth metals		Rs.6000/ (NR) for 2 yrs.	

1.	2.	3.	4	5	6.
35.	Nagpur	Dr. M.V. Kaulgud	Measurement of the thermodynamic & transport properties of aqueous binary liquid mixtures of Amino Acids, Amines, Alcohols, Poly-alcohols etc., with special reference to specific heat, Viscosity, Coefficient of cubical expansion & free energy.	1 JRF Equipment Contingency	Rs.400 pm Rs.23000 Rs.2000 pa. Total Rs.44,600/- for 3 years.
36.	-do-	Dr. A.P. Joshi	Solvent extraction study of some transition elements	1 JRF Contingency	Rs.400 pm Rs.2000 pa. Total Rs.21,600/- for 3 years.
37.	North Bengal	Prof. H.N. Khastagir	Investigation of Chemistry of natural products & their transformations - with particular reference to terpenoids and steroids.	2 JRF Contingency NR	Rs.400 pm Rs.5000 pa. Rs.25,000 Total Rs.71,200 for 3 yrs.
38.	-do-	Dr. A.K. Ghosh	Organotin coordination compounds preparation, Physico-chemical Biocidal properties.	1 JRF Contingency	Rs.400 pm Rs.300 pa. Total Rs.24,600 for 3 yrs.
39.	Osmania	Prof. T.N. Rao	i. Kinetics and mechanism of photochemical reaction, ii. Preparative organic photo-chemistry.	1 JRF Contingency	Rs.400 pm Rs.3000 pa. (for initiating the work for the 1st year Rs.7,800/-)
40.	-do- (Nizam College Hyderabad).	Prof. M.M. Taqui-Khan.	Homogeneous catalysis by metal complexes of Group VIII.	1 SRF 1 JRF Contingency Equipment	Rs.600 pm Rs.400 pm Rs.5000 pa. Rs.40,000 (NR) Total Rs.92,200 for 3 yrs.

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1.	2.	3.	4.	5.	6.
41.	Poona	Dr. M. Sharan	Study of effect of Radiation of the electrical conduction of some lithium and calcium salts & studies of their utilities as desio-meter.	1 JRF Contingency Equipment Total	Rs.400 pm Rs.3000 pa. Rs.32000 (NR) Rs.56,600 for 3 years.
42.	-do-	Dr. A.J. Mukhedkar	Reaction of metal complexes and homogeneous catalysis	1 JRF Contingency Equipment Total	Rs.400 pm Rs.3000 pa. Rs.5000 (NR) Rs.29,600 for 3 years.
43.	Rajasthan	Dr. V.D. Gupta	Synthetic & structural aspects of co-ordination compounds of metals derived from Amidoximes and Hydroxamic	1 SRF Contingency Total	Rs.600 pm Rs.2500 pa. Rs.23,100 for 3 years.
44.	Saugar	Dr. S.S. Nigam & Dr. V.K. Saxena	Search for Antifertile agent from Indian Medicinal plants.	1 SRF 1 JRF Contingency Total	Rs.600 pm Rs.400 pm Rs.5000 pa. Rs.52,200 for 3 years.
45.	Sambalpur	Dr. A. Nayak	Studies on Heterocyclic compounds of Pharmacological Importance.	1 JRF Contingency Total	Rs.400 pm Rs.2500 pa. Rs.23,100 for 3 years
46.	-do-	Dr. G.B. Behora & Dr. A. Nayak	Studies on Heterocyclic Compounds	1 JRF Contingency Equipment Total	Rs.400 pm Rs.2500 pa. Rs.20000 (NR) Rs.43,100 for 3 years.

1.	2.	3.	4.	5.	6.	
47.	Udaipur	Dr. O.P. Mehta	Self diffusion of Ions in single crystals of Alkali hydrogen phosphates	1 JRF Contingency	Rs.400 pm Rs.2500 pa Total	Rs.23,100 for 3 years.
48.	Udaipur	Dr. O.P. Mehta	Ion exchange kinetics in nonaqueous & mix solvents using radio tracers	1 JRF Contingency	Rs.400 pm Rs.2500 pa Total	Rs.23,100 for 3 years.
49.	Visva Bharati	Dr. B.R. Rao	Studies in Polycyclic hydrocarbons & related systems.	1 SRF 1 JRF Contingency Equipment	Rs.600 pm Rs.400 pm Rs.5000 pa Rs.8000 (NR) Total	Rs.60,200 for 3 years.
50	-do-	Dr. B.B. Nath	Investigations on the metal ion activation of the blood coagulant fractions of the Russell's Viper Venom.	1 JRF Contingency	Rs.400 pm Rs.3000 pa Total	Rs.24,600 for 3 years.
51	-do-	Dr. B.P. Das	Studies of the insecticidal and synergistic activities of some carbazole derivatives and their degraded products.	1 JRF Contingency	Rs.400 pm Rs.3000 pa Total	Rs.24,600
52.	-do-	Dr. K.C. Roy	Studies on the electrochemical properties of metals oxide solution interface.	1 JRF Contingency	Rs.400 pm Rs.2000 pa Total	Rs.21,600 for 3 years.
53.	B.I.T.S., Pilani	Dr. A.S. Murthy	Molecular Interactions Spectroscopy and theory	1 JRF Contingency	Rs.400 pm Rs.3000 pm Total	Rs.24,600 for 3 yrs.
54.	-do-	Dr. R.C. Srivastva	Non-equilibrium thermodynamics of oscillatory phenomena in membranes.	1 SRF Contingency	Rs.600 pm Rs.3000 pa Total	Rs.30,600 for 3 years.

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1.	2.	3.	4.	5.	6.	
55.	B.I.T.S./ Pilani	Dr. S.L. Gupta	Polarography of complex metalion with particular reference to (i) the structural influence of complex and (ii) the role of solvent on the stability of the complex and its kinetic parameter.	1 JRF Contingency	Rs.400 pm Rs.2000 pa Total	Rs.21,600 for 3 years.
56.	I.I.Sc., Bangalore	Prof. P.K. Bhatta- charya & Prof. C.C. Patel	Studies on the kinetics & specifically of metalions and their complexes in Enzyme models.	1 SRF 1 JRF Contingency	Rs.600 pm Rs.400 pm Rs.5000 pa Total	Rs.52,200 for 3 years.
57.	-do-	Prof. C.C. Patel	Construction of an Electron Spin resonance spectrometer.	NR. 1 Project Asstt. 1 Lab. Technician Total NR + R	Rs.1,05,000 Rs. 50,000 Rs. 55,000	for 3 years.
58.	J.N. Tech. University (Regional Engg. College, Warangal).	Prof. S. Rajagopal	Synthetic studies in Non-Steroida Antifertility agents.	1 JRF Contingency	Rs.400 pm Rs.2500 pa. Total	Rs.23,100 for 3 years.

BIOLOGICAL SCIENCES: BOTANY.

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S.No.	University/ Institution.	Name of Principal Investigator	Title of the Project.	Grant recommended.
1.	2.	3.	4.	5.
1.	Allahabad.	Prof. D. B. Pant.	Comparative Morphotaxonomic studies of Living and Fossil Plants.	<u>Recurring</u> 2 JRF- Rs. 31,200 1 Lab. Attdt. Rs. 5,400  <u>Non-recurring</u> Equipment. Rs. 40,000 Total: <u>Rs. 76,600</u>
2.	Andhra.	Prof. J. V. Pantulu.	Cytogenetic mapping of mutant phenotypes and cytochemistry of B-chromosomes in <u>Pennisetum typhoides</u> .	<u>Recurring.</u> 2 SRF - Rs. 43,200 1 Lab. Attdt. Rs. 7,500 Contingency & working expenses. Rs. 8,000 -p.a. Total: <u>Rs. 74,700</u> for 3 yrs.
3.	Banaras Hindu University.	Dr. E. R. S. Talpasayi.	Physiological and biochemical studies on the perennation of blue-green algae.	<u>Recurring</u> 2 JRF Rs. 31,200 1 Tech. Asstt. Rs. 10,500 Contingency & working expenses Rs. 7,000 - p.a.  <u>Non-Recurring</u> Equipment. Rs. 30,000 Total: <u>Rs. 92,700</u> for 3 yrs.
4.	Bhagalpur Univ.	Dr. K. S. Bilgrami.	Physiological & Biochemical studies on seed-microflora.	<u>Recurring</u> 1 SRF Rs. 21,600 1 JRF Rs. 15,600 1 Lab Bearer. Rs. 5,400 Contingency. Rs. 10,000 - p.a. Total: <u>Rs. 72,600</u> for 3 yrs.
5.	Bombay. (Instt. of Science, Bombay).	Dr. S. B. Chaphekar.	Effects of industrial air pollutants in plants.  *Travel, Chemicals	<u>RECURRING:</u> 1 JRF Rs. 15,600 1 Lab. Attdt. Rs. 7,200 1 Field man. Rs. 3,500 p.a.

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(Contd.)

			4.	5.
			<u>Non-recurring</u> Equipment.	Rs. 11,100
			Total:	<u>Rs. 44,400</u> for 3 yrs.
6.	Burdwan.	Prof. S.K. Chatterjee.	Studies on the Physiology of senescence in plants and its practical implication.	
			<u>Recurring</u> 2 JRF	Rs. 31,200
			1 Field-cum-lab. Asstt.	Rs. 7,200
			Contingency & chemicals.	Rs. 10,000 - p.a.
			<u>Non-recurring</u> Equipment.	Rs. 10,000
			Total:	<u>Rs. 78,400</u> for 3 yrs.
7.	Calcutta.	Dr. A.K. Chandra.	Exploring biological nitrogen fixation capabilities of the phyllosphere organisms in crop plants.	
			<u>Recurring</u> 2 JRF	Rs. 31,200
			1 Lab. Asstt.	Rs. 10,800
			Contingency.	Rs. 5,000 p.a.
			<u>Non-recurring</u> Equipment.	Rs. 16,000
			Total:	<u>Rs. 73,000</u> for 3 yrs.
8.	-do-	Dr. R.P. Furkayastha.	Investigation on the growth & improvement of an edible mushroom with a view to determine its suitability for cultivation.	
			<u>Recurring</u> 2 JRF	Rs. 31,200
			1 Tech. Asstt.	Rs. 7,200
			Contingency & working expenses.	Rs. 5,000 - p.a.
			<u>Non-recurring</u> Equipment.	Rs. 10,000/-
			Total:	<u>Rs. 63,400</u> for 3 yrs.
9.	Calicut.	Dr. K.S. Menilal.	A reinvestigation of the medical plants in Hortus Malabaricus.	
			<u>Recurring</u> 1 JRF	Rs. 15,600
			1 Field Asstt.	Rs. 10,800
			Contingency.	Rs. 3,000 p.a.
			Total:	<u>Rs. 35,400</u> for 3 yrs.
10.	Delhi.	Prof. A.S. Paintal & Prof. S.C. Maheshwari.	Investigations on the existence and physiological role of acetylcholine in plants.	
			<u>Recurring</u> 1 SRF	Rs. 21,600
			1 JRF	Rs. 15,600
			Contingency & working expenses.	Rs. 10,000 p.a.
			Total:	<u>Rs. 67,200</u> for 3 yrs.

1.	2.	3.	4.	5.
11.	Jodhpur.	Dr. B. D. Sharma.	Ferns & fernallies of Rajasthan morphology anatomy and Physiological studies.	<u>Recurring.</u> 1 JRF Rs. 15,600 Contingency. Rs. 5,000 - p.a. Total: <u>Rs. 30,600</u> for 3 yrs.
12.	Karnatak.	Dr. M. G. Panchaksharappa.	Cytochemical analysis of plant tissues in the vegetative and reproductive structures.	<u>Recurring</u> 1 SRF. Rs. 21,600 Contingency. Rs. 5,000 - p.a. Total: <u>Rs. 36,600</u> for 3 yrs.
13.	-do-	Dr. S. G. Bharati.	Limnological studies in ponds and lakes of Dharwar, Karnatak State.	<u>Recurring</u> 1 JRF Rs. 15,600 Contingency. Rs. 2,500 - p.a. Total: <u>Rs. 23,100</u> for 3 yrs.
14.	Madras.	Dr. C. V. Subramanian.	Study of the fungus flora of South India.	<u>Recurring</u> 1 SRF Rs. 21,600 1 JRF Rs. 15,600 1 Cultural Asstt. Rs. 12,600 1 Driver. Rs. 6,000 Travels. Rs. 15,000 - p.a. Contingency. Rs. 5,000 - p.a. Chemicals & Slides. Rs. 10,000 - p.a. <u>Non-recurring</u> Jeep. <u>Rs. 35,000</u> Total: <u>Rs. 1,80,800</u> for 3 yrs.
15.	-do-	Prof. T. V. Desikachary.	Studies on South Indian Algae.	<u>Recurring</u> 1 SRF Rs. 21,600 1 JRF Rs. 15,600 Contingency. Rs. 5,000 - p.a. Total: <u>Rs. 52,200</u> for 3 yrs. (The facilities of Jeep and services of driver etc. approved for the project to be undertaken by Prof. Subramanian may be used for this).
16.	-do-	Dr. D. Subramanian.	Biochemistry of Host. Pathogen interactions in fungal diseases of plants.	<u>Recurring</u> 1 SRF. Rs. 21,600 1 JRF Rs. 15,600 Contingency. Rs. 7,000 - p.a. Total: <u>Rs. 58,200</u> for 3 yrs.



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17-

1.	2.	3.	4.	5.
17.	Madras (St. Joseph's College, Tiruchirappalli).	Dr. K.M. Mathew.	The Carnatic flora project.	<u>Recurring</u> 2 JRF Rs. 31,200 Travel. Rs. 5,000 - p.a. Contingency. Rs. 3,000 - p.a.  <u>Non-recurring</u> Herbarium, Cupboards & mounts. Rs. 10,000 Equipment. Rs. 10,000 Books & Journals. Rs. 5,000 Total: <u>Rs. 80,200</u> for 3 yrs
18.	do.	Dr. R. Kalyanasundaram.	Fungal Immunoserology.	<u>Recurring</u> 1 JRF Rs. 15,600 1 Animal Attndt. Rs. 5,400  <u>Non-recurring.</u> Equipment. <u>Rs. 50,000</u> Total: <u>Rs. 71,000</u> for 3 yrs
19.	do.	Dr. E. K. Janaki Ammal.	Ethnobotanical survey of South Indian Economic Plants with special reference to collection and utilisation of primitive cultivars.	<u>Recurring</u> 1 SRF. Rs. 21,600 1 JRF Rs. 15,600 1 Field attndt. Rs. 5,400 Contingency. <u>Rs. 10,000</u> - p.a. Total: <u>Rs. 72,600</u> for 3 yrs
20.	M.S. Univ. of Baroda.	Dr. A.R. Mehta.	Physiological & Biochemical investigations of differentiation in higher plants.	<u>Recurring</u> 2 JRF Rs. 31,200 Contingency. <u>Rs. 5,000</u> - p.a. Total: <u>Rs. 46,200</u> for 3 yrs
21.	North-Eastern Hill University.	Prof. P.S. Ramakrishnan.	Ecosystem function of pine forests of Meghalaya.	<u>Recurring</u> 2 JRF Rs. 31,200 1 Field Assnt. (Rs. 250/- p.m.) Rs. 9,000 Contingency Rs. 6,000 - p.a. Field work. Rs. 4,000 - p.a.  <u>Non-recurring.</u> Equipment. <u>Rs. 50,000</u> Total: <u>Rs. 1,20,200</u> for 3 yrs

3.	4.	5.
Dr. N. Ramayya.	Floristics and floral demotypes of the angiosperm of Hyderabad District.	<u>Recurring</u> 1 SRF Rs. 21,600 1 Tech. Asstt. Rs. 10,800 Contingency. Rs. 14,000 Total: <u>Rs. 46,400 for 3 yrs.</u>
Dr. K. V. N. Rao.	Investigations on the correlation between the structure & the growth regulating activity of proanthocyanidins or leucoanthocyanin and their effect on the growth and metabolism of cultured carrot explants.	<u>Recurring.</u> 2 JRF. Rs. 31,200 Contingency, Chemicals & glass wares. Rs. 15,000 - p.a.  <u>Non-recurring</u> Equipment. <u>Rs. 15,000</u> Total: <u>Rs. 91,200 for 3 yrs.</u>
Dr. Bari N. B. Sinha.	Cytogenetic & Niosystematic studies in ferns.	<u>Recurring</u> 1 SRF Rs. 21,600 1 JRF Rs. 15,600 1 Field Attdt. Rs. 5,400 Contingency. Rs. 21,000  <u>Non-recurring</u> Equipment. <u>Rs. 15,000</u> Total: <u>Rs. 78,600 for 3 yrs.</u>
Dr. G. L. Saha.	Phytosociological studies on vegetation of Gujarat State.	<u>Recurring</u> 1 SRF Rs. 21,600 1 JRF Rs. 15,600 1 Hort. Asstt. Rs. 7,200 Contingency. Rs. 10,000  <u>Non-recurring</u> Equipment. <u>Rs. 5,000</u> Total: <u>Rs. 59,400 for 3 yrs.</u>
Prof. J. J. Shah.	Studies in sapwood & heartwood of forest trees in Gujarat.	<u>Recurring</u> 1 SRF. Rs. 21,600 1 JRF. Rs. 15,600 Contingency, Travel & Chemicals. <u>Rs. 10,000 - p.a.</u> Total: <u>Rs. 67,200 for 3 yrs.</u>

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1. 2.

27. Vikram.

28. J. P. University

Financial requirements.

6.

Rs. 31,200-00  
Rs. 5,000-00 p.a.  
Rs. 46,200-00 for 3 yrs.

Rs. 3,000-00 p.a.

ks

Rs. 5,000-00  
Rs. 14,000-00 for 3 yrs.

Rs. 15,600-00  
Rs. 2,500-00 p.a.  
Rs. 23,100-00 for 3 yrs.

Rs. 31,200-00  
Rs. 10,800-00  
Rs. 5,000-00 p.a.

or Rs. 3,000-00 p.a.

le  
Rs. 3,000-00 p.a.  
Rs. 75,000-00 for 3 yrs.  
Rs. 21,600-00  
Rs. 6,000-00  
Rs. 8,000-00  
Rs. 35,600-00

Rs. 21,600-00  
Rs. 15,600-00

er-  
tin- Rs. 15,000-00 p.a.  
Rs. 62,200-00 for 3 yrs.

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BIOLOGICAL SCIENCES: ZOOLOGY.

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S.No.	University/ Institution.	Name of Principal Investigator.	Title of the project.	Staff required.
1.	2.	3.	4.	5.
1.	St. John's College, Agra. (Agra Univ.)	Dr. Santokh Singh	Ecology of High Altitude Soil Anthropods.	2 J.R.F. Contingency
2.	Andhra	Dr. R. Madhavi	"Bionomics of Helminth Parasites of fresh water fishes <del>Pseudocox</del> Panchax and P. Melatigma"	Field work, Chemicals & Glassware  Equipment, Bk & Journals
3.	Bangalore	Dr. A. R. Kasturi Bai.	Studies on some aspects of the behaviour correlative to infor- mation storage in grass hopper <u>Poeciloera picta</u> .	1 J.R.F. Contingency
4.	Central College, (Bangalore Univ.)	Dr. B. N. Chowdaiah	Mosquito Cytogenetics.	2 J.R.F. 1 Lab. Asstt. Chemicals & materials Maintenance animal room Insectary co- lection tools
5.	Bombay	Dr. P. V. Ranganekar	Studies of the Neuro- endocrine control of Moulting, Growth and reproduction in labsters.	1 S.R.F. Equipment Contingency
6.	B.H.U.	Prof. M. S. Karungo	Studies on the a uses and prevention of aging of mammalian tissues.	1 J.R.F. 1 J.R.F. 1 Animal A- dant and c- gency.

Dr.K.C.Gup ta .

Development of genetics of drought-resistant and drought sensitive crops.

Recurring

2 JRE.

Rs. 31,200

Contingency.

Rs. 6,000 p.a.

Total:

Rs. 49,200 for 3 yrs.

Dr. Si pra Guha Mukherjee.

Effect of Light and hormones on the control of enzyme synthesis in higher plants.

Recurring:

1 SRF.

Rs. 21,600

1 JRF

Rs. 15,600

Contingency.

Rs. 10,000 p.a.

Total:

Rs. 67,200 for 3 yrs.

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1.	2.	3.	4.	5.	6.	
7.	Calcutta	Dr. D.N. Raychaudhuri.	Studies on the aphids of Nagaland and Manipur with special reference to biology and control of some of the economically important Aphid species.	Equipment 1 S.R.F. 2 J.R.F. 1 Field Asstt. 1 Lab. Attndt. Contingency Working expenses & travels.	Rs. 10,000-00 Rs. 21,600-00 Rs. 31,200-00 Rs. 10,800-00 Rs. 5,400-00 Rs. 10,000-00	<u>Rs. 1,09,000-00 for 3 yrs.</u>
8.	Calcutta	Dr. A.S. Mukherjee	Genetic dissection of eukaryote genomic organization: Role of nonhistone phosphoprotein.	1 S.R.F. 1 J.R.F. 1 Technician Contingency & working expenses	Rs. 21,600-00 Rs. 15,600-00 Rs. 9,000-00 Rs. 45,000-00	<u>Rs. 91,200-00 for 3 yrs.</u>
9.	-do-	Dr. A. Choudhury.	Ecology of the tidal creeks & Mud flats of Sagar Island, Sunderbans, West Bengal.	1 J.R.F. Contingency	Rs. 15,600-00 Rs. 3,000-00 p.a.	<u>Rs. 24,600-00 for 3 yrs.</u>
10.	Delhi.	Dr. C.M.S. Dass & Dr. S. Dyraishwami.	The mammalian salivary gland as a model for the study of regulation of cell division & differentiation.	2 J.R.F. 1 Lab. Attndt. Contingency, Animal Feed, Chemicals etc.	Rs. 31,200-00 Rs. 8,000-00 Rs. 15,000-00 p.a. Rs. 84,200-00 for 3 yrs.	
11.	-do-	Dr. C.L. Talesara	Histophysiological investigations concerned with the fibre architecture differentiation, energy metabolism and its regulation in mixed and un-mixed vertebrate skeletal muscles.	1 J.R.F. 1 Lab. Attndt. including con- tingency. Non-recurring: As. 12,500/- (for air- conditioner, electronics stimulator, animal cages etc.).	Rs. 15,600-00 Rs. 6,000-00 p.a. 12,500.00 34,500.00	

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1.	2.	3.	4.	5.	6.
12.	Gorakhpur.	Dr. K. Swarup.	Studies on endocrine glands related to plasma calcium regulation in certain vertebrates.	1 J.R.F. Contingency & working expenses	Rs. 15,600-00 <u>Rs. 5,000-00 p.a.</u> <u>Rs. 30,600/- for 3 yrs.</u>
13.	Gujarat.	Dr. V.C. Shah	Genetics, cytogenetics, cytochemical, and Biochemical studies on Leucoderma.	1 S.R.F. 2 J.R.F. Contingency & working expenses	Rs. 21,600-00 Rs. 31,200-00 <u>Rs. 15,000-00 p.a.</u> <u>Rs. 97,800-00 for 3 yrs.</u>
14.	Gujarat.	Dr. S.C. Lakhota.	Regulation of puffing and Gene activity in the polytene cells of Drosophila.	<u>Recurring:</u> 1 Research Assistant 1 Jr. Res. Tech. Asst. Chemicals Glassware and Contingencies Publication and purchase of reprints etc. <u>Non-recurring:</u> Laboratory: Equipment:  Total:	Rs. 300/- p.m. Rs. 250/- p.m. Rs. 2,500/- p.a. Rs. 2,000/- p.a. for 3 yrs. Rs. 1,000/- p.a. Rs. 15,000/- Rs. 20,000/-  Rs. 71,300/- for 3 years.
15.	Jodhpur.	Dr. S. S. Mehta	Hydrobiology and productivity of some freshwater reservoirs/lakes of semi-arid zone, Jodhpur (Rajasthan).	2 J.R.F. 1 Tech. Asstt. Contingency Special chemicals & Glasswares.	Rs. 31,200-00 Rs. 9,000-00 Rs. 3,000-00 p.a. <u>Rs. 6,000-00</u> <u>Rs. 55,200-00 for 3 yrs</u>
16.	Kerala	Dr. K.M. Alexander	Studies on Releaser Pheromones of the Musk Shrew, <u>Suncus Murinus viridescens</u> .	1 J.R.F. 1 Technical Asstt. Contingency, Chemicals etc.	Rs. 15,600-00 Rs. 10,800-00 <u>Rs. 5,000-00 p.a.</u> <u>Rs. 41,400/- for 3 yrs.</u>

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1.	2.	3.	4.	5.	6.
17.	Madurai Univ. (A.P. Arts College).	Dr. P. J. Pandian.	Ecophysiological studies on culture of air-breathing fishes.	Acquara & nets, 1 S.R.F. 1 J.R.F. Contingency.	Rs. 15,000-00 Rs. 21,600-00 Rs. 15,600-00 Rs. 5,000-00 p.a. <u>Rs. 67,200-00 for 3 yrs.</u>
18.	D.A.V. College Muzaffarnagar. (Meerut Univ.)	Dr. V.P. Agrawal & Dr. S. V. S. Rana.	Studies on the effect of some of the main air pollutants on the chemical make up of trachea, lungs, heart and brain of a few mammals.	Equipment (Vibrator). 1 J.R.F. Contingency & working expenses.	Rs. 6,000-00 Rs. 15,600-00 Rs. 5,000-00 p.a. <u>Rs. 36,600-00 for 3 yrs.</u>
19.	Osmania	Dr. I.V. Kamana Rao	An enquiry into physiological responses of larvicidal fish to pollution and ground water chemical alterations as a means to thwart public health consequent of fish mortality.	2 J.R.F. Contingency.	Rs. 31,200-00 Rs. 5,000-00 p.a. <u>Rs. 46,200-00 for 3 yrs.</u>
20.	Panjab.	Dr. G.P. Sharma.	Cytogenetics of the Mosquitoes of India.	2 J.R.F. 1 Lab. Asstt. working expenses & contingency.	Rs. 43,200-00 Rs. 9,000-00 <u>Rs. 6,000-00 p.a.</u> <u>Rs. 70,200-00 for 3 yrs.</u>
21.	Utkal	Dr. D.R. Naik	Studies on the Pituitary Gland of Reptiles.	N.R.O.	Rs. 38,700-00

1. 2. 3. 4. 5. 6.

22. Visva-Bharati,

Dr. N.C. Sukul.

Studies on the Ecology of  
Soil micro-fauna and microflora  
with special emphasis on  
nematode and micro-arthropods  
of nematodes diseased of crop  
plants.

Recurring:

1 S.R.F. Rs. 21,600  
1 J.R.F. Rs. 15,600  
Contingency Rs. 15,000

Non-recurring:

Warburg Apparatus Rs. 13,000-00

Rs. 65,200.00

(for 3 years)

Prof. Asit Barn Das,

Evaluation of Physiological  
and Biochemical responses of fish  
chronically exposed to low levels  
of interacting thermal and chemical  
pollutional stressés, with refer-  
ence to Tami Nullah and Damodar  
River (Durgapur, West Bengal).

Recurring:

1 J.R.F. Rs. 15,600.00  
1 Field Asstt. including  
contingency Rs. 82,000-00 p.a.

Non recurring:

spectrophotometer Rs. 25,000/-  
Centrifuge Rs. 20,000/-

Rs. 90,600/-

(for 3 years)

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5.

1.	2.	3.	4.	5.
1.	Banaras Hindu Univ.	Prof. D.P. Burma.	Structural topography of the ribosomes and their sub units.	<u>Recurring</u> 1 SRF. Rs. 21,600 1 JRF. Rs. 15,600 Tech. Asstt. Rs. 10,800 Chemical. Rs. 5,000 - p.a. Glass wares. Rs. 2,500 - p.a. Total: <u>Rs. 70,500</u> for 3 yrs.
2.	Delhi.	Dr. T.A.V. Subramanian.	Metabolic studies on Drug resistant and sensitive mycobacteria.	<u>Recurring</u> 2 SRF Rs. 43,200 Working expenses. Rs. 10,000 - p.a. Glasswares. Rs. 6,000 - p.a. Chemicals. Rs. 2,000 - p.a. Total: <u>Rs. 1,39,200</u> for 3 yrs.
3.	Osmania.	Sh. T.N. Pattabiraman.	Metabolism of plant fructans.	<u>Recurring</u> 1 JRF. Rs. 15,600 Working Expenses. Rs. 6,500 - p.a. <u>Non-recurring</u> Equipment. Rs. 25,000 Books & Journals. <u>Rs. 2,500</u> Total: <u>Rs. 62,300</u> for 3 yrs.
4.	-do-	Dr. K. Sivaraman Sastry	The photochemistry of purines and nucleic acids.	<u>Recurring:</u> 1 JRF Rs. 15,600 Chemicals & Glassware Rs. 8,000 - p.a. Contingency Rs. 2,000 - p.a. <u>Non-recurring</u> Equipment. Rs. 11,000 Total: <u>Rs. 56,600</u> for 3 yrs.
5.	Poona (Ahmednagar College, Ahmednagar).	Dr. John Barnabas.	Molecular forms, genetics and evolution of hemoglobins of <u>Bovids in Descent.</u>	<u>Recurring</u> 1 JRF Rs. 15,600 1 Tech. Asstt. Rs. 10,800 Contingency. Rs. 10,000 - p.a. <u>Non-recurring</u> Equipment (Electrophoresis apparatus. Rs. 10,000 Automatic Shaker. Rs. 10,000 Total: <u>Rs. 76,400</u> for 3 yrs.

BIOLOGICAL SCIENCES - MICROBIOLOGY.

1.	2.	3.	4.	5.	6.
1. I. I. Sc., Bangalore.	Dr. Y. I. Shethna.	Structural characteristics and their relationship to the antitumour and insecticidal activities of a crystalline protein component of bacillus thuringiensis var. thuringiensis.	4 S. R. F.	Rs. 21,600-00	
			Equipment	Rs. 4,000-00	
			working expenses & contingency	Rs. 8,000-00 p.a.	
					Rs. 49,600-00 for 3 yrs.

ANTHROPOLOGY.

1. Delhi.	Dr. P. K. Seth	Genetical and behavioural variability in Rhesus Monkeys living under different ecological conditions.	2 J. R. F.	Rs. 31,200-00	
			Contingency & working expenses	Rs. 10,000/- P.A.	
			Animal's glass-ware etc.	Rs. 61,200. for 3 years.	

BIOLOGY

1. Annamalai.	Dr. V. K. Venugopalan	Studies on organic matter in the coastal waters of Porto Novo.	2 J. R. F.	Rs. 31,200.	
			Contingency	Rs. 10,000/- P.A.	
				Rs. 61,200. for 3 years.	
2. Jammu	Dr. M. K. Jyoti	Studies on the productivity on Shuian-Sar Lake, Jammu.	2 J. R. F.	Rs. 31,200.	
			Contingency	Rs. 5,000. P.A.	
			Equipment	Rs. 7,500.	
				Rs. 53,700. for 3 years.	
3. Madurai	Dr. J. Jayaraman	Dynamic Nature of Mitochondrial Membrane Function in Relation to Cellular Environment.	2 J. R. F.	Rs. 31,200.	
			Working Expenses	Rs. 45,000. P.A.	
			Equipment	Rs. 45,000.	
				Rs. 1,21,200.	
4. "	Dr. A. Gnanam	Regulation of Photosynthetic carbon flow by Ammonium compounds	2 J. R. F.	Rs. 31,200.	
			1 Tech. Asstt.	Rs. 10,800.	
			Chemicals, glass-ware & Contg.	Rs. 10,000 P.A.	
				Rs. 72,000. for 3 years.	

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	Dr. Jayarama	Genetics of RNA polymerase in XXX Escherichia coli.	1 Technician (Es. 250/- P.M.) Contingency working expenses & chemicals Equipment	Rs. 9,000. Rs. 15,000. F.A. Rs. 10,000. Rs. 64,500. for 3 years.
6.	"	<u>Immunogenetic in Reptiles</u> Dr. V.R. Muthukkaruppan - A Phylogenetic approach to understand immunological mechanisms.	1 J.R.F. 1 Animal Caretaker Contingency	Rs. 15,600. Rs. 5,400. Rs. 5,000. F.A. Rs. 36,000. for 3 years.
E.	Punjabi	Dr. P.K. Shrivastava Human antigens research programme	1 S.R.F. 1 J.R.F. 1 Animal Homekeeper 1 Tech. Asstt. Travel Recurring expenses/ working expenses, Contingency	Rs. 21,600. Rs. 15,600. Rs. 8,700. Rs. 10,800. Rs. 30,000 Rs. 45,000 Rs. 6,000 Rs. 1,37,700/- for 3 years.

GENETICS

1.	2.	3.	4.	5.
1. Osmania.	Dr. J. S. Murthy.	Anthropogenetic studies of Andhra Pradesh tribes.	Recurring: 2 JRF 2 Field Man. Travel Contingency.	Rs. 31,200 Rs. 19,200 Rs. 5,000 - p.a. Rs. 5,000 - p.a. <u>Rs. 72,000 for 3 yrs.</u>
2. -do-	Dr. O. S. Reddy.	Studies on the Genetics and Somatic effects of carbon-14 in mice.	Recurring 3 JRF 2 Lab. attend. 3 Kamatees. Chemical, Glass- wares, Animal feed, Radioiso- topes & Conting.	Rs. 46,800 Rs. 28,000 Rs. 22,500 Rs. 40,000 - p.a. <u>Rs. 2,07,300 for 3 yrs.</u>

PHYSIOLOGY/MEDICINE:

1. H.H. U.	Dr. Amal Kumar Mulhoptadhyay	A study on nucleic acid and proteins metabolism in rat hypothalamus.	Recurring: <del>1 SRF</del> 1 JRF Contingency	Rs. 21,600 Rs. 15,600 Rs. 10,000 <u>Rs. 25,600 for 3 yrs.</u>
2. -do-	Dr. Shivnath Ghosal,	Chemical and Pharmacological evaluation of Psycho active substances occurring in Indian Medicinal Plants.	Recurring 1 SRF 1 JRF Contingency Total	Rs. 21,600. Rs. 15,600. Rs. 10,000 <u>Rs. 67,200 for 3 years.</u>

2.  
 1. Andhra University

3.  
 Dr. J. Gopala Krishna

4.  
 "Probability techniques, Valuation theory and applications to differential equations in several complex variables"

5.  
 2 J.R.F.  
 Contingency  
 (Rs. 5000/-PA)  
 Total

Rs. 31,600.00  
 Rs. 15,000.00  
Rs. 46,600.00 for 3 yrs.

Suggestions/comments made by Prof. K.B. Athreya may be communicated to the Investigator.

2. Banaras Hindu University

Dr. R.N. Pandey

"Transport Mechanism of living Organism"

2 S.R.F.  
 Contingency  
 (Rs. 2000/-PA)

Rs. 21,600.00  
Rs. 6,000.00

Total Rs. 27,200.00 for 3 years.

3. Bangalore

Dr. N. Rudraiah

i. "Stability of Conducting and Non-conducting Flows"  
 ii. "Waves in a conducting fluids-Incompressible and compressible"  
 iii. Flow problem including lubrication problems"

2 S.R.F.  
 1 J.R.F.  
 Contingency  
 (Rs. 5000/-P.A.)  
 Computation  
 (Rs. 6000/-P.A.)  
 Equipment  
 Total

Rs. 43,200.00  
 Rs. 15,600.00  
Rs. 15,000.00  
 Rs. 18,000.00  
Rs. 72,000.00  
Rs. 1,63,800.00 for 3 yrs.

4. Berhampur

Prof. Nand Kishore

"Theory and applications of summability"

1 J.R.F.  
 Books and  
 Contingency  
 (Rs. 3000/-P.A.)  
 Total:

Rs. 15,600.00  
Rs. 9,000.00  
 Rs. 24,600.00 for 3 years

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1.	2.	3.	4.	5.	
5.	Berhampur	Dr. Narhari Parhi	"A study of boundary value-problems for functional differential equations".	1 J.R.F. Books and ) Contingency ) (Rs. 2000/-P.A) Total	Rs. 15,600.00  <u>Rs. 6,000.00</u> Rs. 21,600.00 for 3 yrs.
6.	Berhampur	Dr. (Miss) D. Rath	i. "Studies in Abstract Harmonic Analysis".  ii. "Aspects of summability in sequence and function spaces".	1 J.R.F. Books and ) Contingency )  Total	Rs. 15,600.00  Rs. 9,000.00  <u>Rs. 24,600.00</u>
The Investigator may combine both the projects.					
7.	Burdwan	Dr. A. S. P. Sinha	"A study on operations in topology and functional analysis, particularly on theory of fixed points"	1 J.R.F. Books and ) Contingency ) (Rs. 2000/-P.A.)	Rs. 15,600.00  <u>Rs. 6,000.00</u> Rs. 21,600.00 for 3 yrs.
8.	Burdwan	Dr. S. K. Chakrabarty	"Study of the effect of initial stresses and inhomogeneities on wave propagation in elastic and plastic media"	1 S.R.F. 1 J.R.F. Books and ) Contingency ) (Rs. 3000/-P.A) Computation (Rs. 2000/-P.A.)	Rs. 21,600.00 Rs. 15,600.00  Rs. 9,000.00  Rs. 6,000.00  <u>Rs. 52,200.00</u> for 3 yrs.
9.	Gorakhpur	Dr. V. B. Johri	"New theories of gravitation and their cosmological validation".	1 J.R.F. Books and ) contingency ) (Rs. 3000/-P.A) Total	Rs. 15,600.00  Rs. 9,000.00  <u>Rs. 24,600.00</u> for 3 yrs.



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1.	3.	4.	5.
10. Kerala	Professor(Miss) A. George	"Probability models in fertility"	I.I.R.F. Rs. 15,600.00 Books and Contingency) Rs.1500/-P.A) <u>Rs. 4,500.00</u> Total <u>Rs. 20,100.00</u> for 3 yrs.
11. Kurukshetra	Dr.M.L.Gongya	"Calculation of the Regional Travel time for the Indian Region".	1 S.R.F. Rs. 21,600.00 1 J.R.F. Rs. 15,600.00 Books and ) Contingency) Rs. 15,000.00 (Rs.5000/-P.A) Total <u>Rs. 52,200.00</u> for 3 yrs.
12. Saugar	Prof.D.N.Misra	"Some problems in general topology"	2 J .R.F. Rs. 31,200.00 Books and ) Contingency) Rs.3000/-P.A. <u>Rs. 9,000.00</u> Total <u>Rs. 40,200.00</u>
13. South Gujarat	Dr.A.F.Verma	"Physico Mathematical Study of Flow Systems in porous media".	1 S.R.F. Rs. 21,600.00 1 J.R.F. Rs. 15,600.00 Contingency & ) Computer time) <u>Rs. 12,000.00</u> (Rs.4000/-P.A) Total <u>Rs. 49,200.00</u> for 3 yrs.
14. Regional Engineering College, Warangal	Dr.S.K. Lakshmana Rao	"Basic Studies in Polar fluid media".	Books and ) Contingency) Rs. 7,500.00 for 3 yrs,

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GEOLOGY & GEOPHYSICS

S.No. 1.	University 2.	Name of Principal Investigator 3.	Title of the Project 4.	Grant Recommendations & duration 5.
1.	Aligarh Muslim University.	Dr.S.N. Ehalia	A study of microfossils from the shelf regions off Goa and Kerala.	N.Rs. 30,000 J.R.F.-2 Contingency etc Rs. 5,000/-P.A. for 3 years Rs. 30,000/- Rs. 31,200/- Rs. 15,000/- Rs. 76,200/- for 3 yrs.
2.	- do -	Dr. Syed M. Zainuddin	Geo-chemistry, Control and enrichment of major & accessory minerals in pegmatites of Bihar & Rajasthan Mica belt.	J.R.F.-2 Contingency Rs. 3000 PA Field Work 5000/-P.A. for 2 years. Rs. 19,200/- Rs. 6,000/- Rs. 10,000/- Rs. 35,200/- for 2 yrs
3.	Calcutta University	Dr. S. Sen	Comparative studies of Erosion & sedimentation in Humid & Semi Arid environments.	Eqpt. -Rs. 5000 S.R.F. -1. J.R.F. -1 Contingency- Rs. 2000 PA Fieldwork Rs. 5000 PA Rs. 5,000/- Rs. 21,600/- Rs. 15,600/- Rs. 6,000/- Rs. 15,000/- Rs. 63,200/- for 3 yrs.
4.	- do -	Dr. Aniruddha De	Volcanic History of Ore Mineralogy of the Deccan Trap flow & intrusions in the Satpura Region, M.P.	Eqpt. Rs. 5000/- Lab. Asstt. -1 (Part-time basis) Field work Cont. Rs. 5,000/-PA for 3 yrs. Rs. 5,000/- Rs. 10,800/- Rs. 15,000/- Rs. 30,800/- for 3 yrs
5.	- do -	Dr. Anandil Banerjee	Study of Paleocurrents in the Vindhyan Basin	S.R.F. -1. Field Asstt. -1 Field work & Contingency Rs. 5000/-PA for 2 years. Rs. 14,400/- Rs. 6,000/- Rs. 10,000/- Rs. 30,400/- for 2 yrs.

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1. Jadavpur University	Dr.S.Basu Malik	The investigations into the magnetization processes and the Palaeomagnetics measurements of rocks.	Eqpt-Rs.5,000/- S.R.F.-1. Rs. 5,000/- J.R.F.-1. Rs. 21,600/- Rs. 15,600/- Field work and Contingency Rs. 9,000/- Rs.3,000/-P.A for 3 years. Rs. 51,200/- for 3 yrs.
7. - do -	Shri Sachinath Mitra	A study of the dispersion of mercury & near-rare earth elements soils & preferential absorption by clay minerals & plants over mineralised Regions in Singbhum, Gujarat & Tamil Nadu.	Fabrication of Eqpt.20,000 Rs. 20,000/- S.R.F.-1. Rs. 15,600/- Tech.Asstt.-1. Rs. 12,000/- Contingencies Rs.1,000/-P.A. Rs. 3,000/- Rs. 50,600/- for 3 yrs
8. Calcutta University	Dr.Supriya Roy	Geological,mineralogical & Geochemical study of the manganese ore deposits of Karnataka(Mysore)State with particular reference to Sandur manganese deposits, Bellary Distt.	J.R.F.-2 Rs. 31,200/- Lab.Expdt. Rs. 15,000/- Rs.5000/-P.A Contingency & Field work Rs.5,000/-P.A for 3 years. Rs. 15,000/- Rs. 61,200/- for 3 yrs.
9. Jadavpur University	Dr.S.K. Chanda	Proterozoic tidal deposits in parts of Madhya Pradesh and Rajasthan & their palaeogeographic implications.	J.R.F.-1 Rs. 15,600/- Field work & Contingency- Rs. 7,500/- Rs.2,500/-P.A. for 3 years. Rs. 23,100/- for 3 yrs.
10. - do -	Dr.A.D.Mukherjee	Metmorphism & deformation of sulphide ore deposits of Rajasthan with special reference to the mineralogy of the ores and its application to ore dressing.	J.R.F.-1 Rs. 15,600/- Field work & Contingency- Rs. 2,000/-P.A. for 3 years. Rs. 6,000/- Rs. 21,600/- for 3 yrs.

1.	2.	3.	4.	5.
11. Karnatak University	Prof.M.S.Sadashivaiah	Study of the flourinbearing water of Dharwar, Balgaum, Gulbarga Districts & Brackish water of Naralgund and Naragund of Karnatak State	N.R.Rs.6,000 Chemist(Analytical)-1Rs. 15,600 S.R.F.-1. Rs. 6,000/- (Field Officer) Rs. 21,600/- Glassware, chemicals, field work & Contingency Rs.10,000/- for 3 years. Rs. 30,000/- <del>Rs. 72,000</del>	for 3 yrs.
12. Mysore University	Prof.M.N.Visvanathiah,	i. Hydrothermal growth & characterisation of Quarts crystals eloped with rare elements. ii. Phara equilibria studies of lanthuide H <sup>20</sup> systems.	N.R. Rs.22,000 J.R.F.-2 Rs. 22,000/- Rs. 31,200/- Rs. 53,200/-	for 3 yrs.
13. - do -	Dr. V. Venkatachala- pathy	a) Palynological studies in the Precambrians(Kaladgis and Badmis)of Karnataka b)Micro-palaeomboligical studies from the sediments of west coast of India.	Lab. Technician-1. Rs. 330/-P.M.) Rs. 10,800/- Field work Rs.3,000PA Chemicals Rs.2,000 PA for 3 years. Rs. 6,000/- Rs. 25,800/-	for 3 yrs.
14.		c)Micropalacntological investigations of the intertrappeans of India		
14. Osmania University	Prof. V.L.S. Rhina- sankaram,	Development of Integrated well logging equipment for shallow boreholes	N.R.Rs.1,20,000 J.R.F.-2. Technical Assistants-2 Rs.1,20,000/- Rs. 31,200/- Rs. 24,000/- Rs.1,75,200/-	for 3 yrs.

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15. PUNE University

Prof. B. G. Deshpande, Groundwater resources of the Deccan Trap region with special reference to (a) Mahatma Phule Krishi Vidyapeeth area, Rahuri, Nagar Distt. Maharashtra (b) Depoli Krishi Vidyapeeth area, Depoli Ratngiri, Distt., Maharashtra

J.R.F.-2 Rs. 19,200/-  
N.R. Rs. 18,200/-  
Total: Rs. 37,400/-  
for 2 yrs.

16. Poona University

Dr. G. G. Deshpande Geology of the area around Kambhavi, Gulbarga District, Karnataka

N.R.-Rs. 1,000 Rs. 1,000/-  
J.R.F.-1. Rs. 15,600/-  
Rs. 16,600/-

17. Saugar University

Dr. S. K. Babu Study of Basaltic Glasses

N.R. Rs. 500/- Rs. 500/-  
Recurring  
Rs. 1,700/- Rs. 1,700/-  
Rs. 2,200/- for 1 year

18. Sambalpur University

Dr. B. K. Sahu Geometrical and statistical properties of Porous media

N.R. Rs. 4,000 Rs. 4,000/-  
Working expenses-  
Rs. 2,000/- P.A. for  
3 years. Rs. 6,000/-  
Rs. 10,000/- for 3 years.

19. Varanasi University

Dr. K. K. Singh Acidic Mafic ultramafic magnetism and related mineral deposits in parts of M.P. and joining regions.

N.R.-7000 Rs. 7,000/-  
J.R.F.-2 Rs. 31,200/-  
Lab. Technician-1 Rs. 12,000/-  
Rs. 50,200/- for 3 yrs.

20. Jadavpur University

Dr. S. I. Bakshi, Stratigraphy of the sedimentary sequence around Neyveli with special reference to Neyveli Lignite.

J.R.F.-1 Rs. 15,600/-  
Working Expenses  
Rs. 2,500/- P.A.  
for 3 years. Rs. 7,500/-  
Rs. 23,100/- for 3 yrs.

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1.	2.	3.	4.	5.
21.	M.S. University of Baroda.	Prof. S. S. Kerkh,	Quaternary geology and geomorphology of Gujarat with special reference to the coastal areas.	N.R. Rs. 5,000 J.R.F. -2 Working expenses Rs. 5,000/-P.A. <u>Rs. 15,000/-</u> <u>Rs. 51,200/- for 3 years.</u>
22.	Presidency College Calcutta (Calcutta Univ.)	Dr. A. K. Banerjee	Geological evaluation of the Precambrian belt of North Singhbhum-an integrated approach	N.R. Rs. 10,000 (Scintillation Counter) J.R.F. -4 Working expenses- Rs. 10,000/-P.A. for 3 years. <u>Rs. 30,000/-</u> <u>Rs. 1,02,400/- for 3 yrs.</u>
23.	Saugar University	Dr. B. Das	Stratigraphy, structure and tectonic history of the area alongwith Great Boundary Fault, Rajasthan	J.R.F. -2 Working expenses Rs. 500/-PA for 3 years. <u>Rs. 15,000/-</u> <u>Rs. 46,200/- for 3 yrs.</u>

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Appendix V to the minutes of the  
UGC meeting held on 14th & 15th  
July, 1976. (Page No. 34).

1. Regional Instrumentation Centre for the Western Region  
at the University of Bombay.

Keeping in view the recommendations made by the Physics Panel the Science Research Council has recommended the acceptance of the proposal in principle and to provide initially a grant of Rs.50,000/- to the University of Bombay to appoint a core staff of three persons (including 1 person at professors level and the other two at readers/lecturers level) to prepare a feasibility report on the basis of a survey to be conducted with regard to the servicing functions, repair and maintenance functions and design and fabrication of new equipment functions to be taken up by the Centre. The feasibility report, which should be made available within a period of six months, and in no case later than 9 months, should indicate the phasewise, disciplinewise, prioritywise as well as costwise aspects of the development of the Regional Instrumentation Centre. The university, for purposes of this feasibility report, may associate the expertise available in the Tata Institute of Fundamental Research, Bombay, Bhaba Atomic Research Centre and also the department of Physics, Poona University. The feasibility report could then be considered by the Science Research Council and specific recommendations made with regard to the non-recurring and recurring expenditure that may be approved for the duration of the fifth plan period for the development of the Regional Instrumentation Centre. The University may provide the required secretarial assistance for the preparation of the feasibility report mentioned above by the core staff to be appointed for the purpose.

The grant of Rs.50,000/- recommended would include provision for the salaries of the academic technical staff appointed as well as for working expenses related to survey etc. The Council also felt that the University of Bombay may create minimum facilities of workshop for day to day use by its various science departments located at the new campus with the help of the normal fifth plan allocation available to it.

2. Proposal of the Indian Institute of Science, Bangalore for  
continued support required for its research project "Phosphazenes -  
A group of Phosphorous nitrogen compounds".

The Council noted with appreciation the high quality of work so far done under this project and the appreciation which it has received both from the scientific point of view and as an international collaboration project taken up with the department of Chemistry, Birkbeck College, London. The Council, therefore, recommended that the University Grants Commission may continue to provide support for this project for another period of five years on the existing basis i.e. Rs.3 lakhs for the five year period. The principal investigator may be given necessary freedom to adjust the expenditure of recurring and non-recurring items as per emerging needs of this project.



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The Council further noted that this research project had yielded processes and products which may have significant applications in different areas, such as agriculture, health, textile etc. In view of this important application aspect, the principal investigator may be requested to consider whether further collaboration with the Birkbeck College at the stage of application would be necessary and if so, necessary clearance of the government of India may be obtained. It was requested that in the course of next two years the principle investigator may identify the possible application areas for these compounds and also prepare specific proposals indicating financial needs required for undertaking such industrial/agricultural applications. The Council could then consider providing support for these purposes either through the University Grants Commission alone or in collaboration with the user industries and ministries of Government of India.

3. Core support for research by university teachers.

The Council considered the views expressed by the University Grants Commission in April, 1975 on the recommendations made by the Council earlier to evolve a scheme by which core support could be given to every teacher for engaging himself in useful research activity. The Council agreed with the suggestion made by the Commission that a suitable annual grant, (in 2 levels Rs. 1 lakh and Rs. 50,000/- as was made during the fourth plan period) may be made available to each university for providing such support to individual teachers. This lumpsum grant at the disposal of each university should be utilised, in accordance with the guidelines to be prescribed by the sub-committee of the Science Research Council. Such support upto a prescribed ceiling in each case would be available to teachers who have not received any support from any other source by way of specific research project and who have no access to other contingent grant etc. available to their research scholars working with them. The detailed guidelines may be laid down by a committee consisting of Professor Rais Ahmed, Professor R.C. Mehrotra and Professor B.M. Udgaonkar.

4. The Council considered the views expressed by the sub-committee with regard to the action to be taken to help the Universities for bringing to use equipment presently remaining "d" idle". It was agreed that a letter may be addressed to all heads of science departments of the universities to obtain latest information, (in the form of a questionnaire to be prepared for this purpose) with regard to the items of equipment which are not presently in use and which could be repaired and put to use. On the basis of the information obtained the Central Scientific Instruments Organisation, Chandigarh and a few other institutes, such as Central Drug Research Institute, Lucknow, Bhaba Atomic Research Centre, Bombay, Indian Institute of Science, Bangalore etc. may be requested to make an on-the-spot evaluation of the nature of such "idle" equipment and suggest measures to be taken for their repairs and early commissioning them to use. On the basis of such reports to be received in respect of different

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categories of equipment, the Council may then suggest appropriate action to be taken. The expenditure involved in conducting such a survey and on-the-spot inspection may be met by the University Grants Commission.

5. The Council considered the recommendations made by the Earth Science Panel with regard to the provision of studentships to the M.Sc./Applied Geology students in institutions approved by the University Grants Commission for starting such three years M.Sc. course in Applied Geology. The Council recommended that the suggestion made by the Panel may be accepted and studentships of the value of Rs.250/- P.M. may be made available to the students only during the third year of the course, which is an additional year to be spent by the students for purposes of this course. Studentships of this value may be given for a period of 12 months, to all students who have secured at least 55% marks in the annual examination held at the end of the second year.

6. The Council welcomed the suggestion made by the different Panels regarding the collaboration with the CSIR laboratories in specific areas of research of national importance. The Council suggested that the specific suggestions made by the Biological Science Panel may be forwarded to the CSIR so that suitable joint research programmes could be developed. Recommendations of the other Panels, as and when received may also be forwarded to the CSIR for similar action. The Council noted that a certain number of fellowships had been created by the University Grants Commission and also by the CSIR for purposes of exchange of visits for periods ranging from six months to a year between scientists and teachers in the universities and the national laboratories. The Council also supported recommendations of the Earth Sciences Panel for the creation of five such fellowships each way for similar exchange between the universities and the Geological Survey of India/ONGC etc. The fellowship could provide for continued payment of the salary etc. of the scientists concerned by the parent organisation and provision for an allowance for living expenses at Rs.500/- P.M. and travel to and fro once to be met by the Universities Grants Commission in the case of the scientists as well as the teachers from the universities.

7. With regard to the question of promoting developmental activities with regard to design and fabrication of equipment required for use by the universities, the Council noted that the Department of Science and Technology and the CSIR had recently constituted a committee to look into those aspects and to develop necessary capacity for indigenous manufacture of such items. The members of the Council were requested to indicate the items of such equipment required by the universities, in their own specific areas, so that these may be communicated to the committee of the department of Science and Technology.

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8. The Council noted that some of the Panels had suggested specific courses on much advanced level to be organised during the fifth plan period in certain universities. Since the organisation of such courses on an all India basis with adequate advanced planning and involvement of the expertise available within the country would help in the upgrading of the competence of the teachers, the Council recommended that these suggestions may be accepted by the Commission and necessary action taken for organisation of the institutes suggested by the different Panels.

General recommendations made by the Panels in Science.

9. It was noted that the Faculty Improvement Programme has been introduced by the UGC, which includes a provision for teacher fellowships to enable teachers to spend a year or more at selected Centres for Advanced Studies or Research. The Panel recommended that a fairly large number of teachers who give an evidence of an active interest in advanced studies or an aptitude for research may be given an opportunity to spend a whole year for advanced studies/research under the Teacher Fellowship Programme, and out of them a certain number may be given an opportunity to spend an additional period so as to be able to complete the Ph.D. In view of the fact that the number of teachers who could be accommodated in the programmes of teachers fellowships for a year or more may not be large, the Commission may consider a graded programme wherein most of the teachers first go through a summer institute workshop programme (as outlined above), and out of them some are selected on the basis of the performance at the summer institute, for a teacher fellowship programme of longer duration. Year-long teacher fellowships may, of course, be given on the basis of other evidence of interests/ aptitude provided by a teacher.

10. The Panels recommended that the conversion of a Senior Fellowship into a Junior Research Fellowship under Research Projects may be allowed at the time of recruitment. However, one senior research fellowship may not be converted into 2 Junior Fellowships.

11. Keeping in view the fluctuations in prices of scientific equipment, chemicals etc., the Panels felt that in respect of non-recurring grants approved under different research projects, the Principal Investigators may be allowed the flexibility of variation upto 10% of the amount approved. The UGC may make available additional grant for this purpose, wherever required, without reference to the Panel. In the case of the recurring grants, the Principal Investigators may be allowed to make necessary adjustments upto 10% from one budget head to other as per needs. However, any savings that may be available because of delays in appointment of staff, i.e., research fellows, would not be available for use. Since the research grants are generally approved for a three year period and annual ceilings are indicated for different items of recurring expenditure, the Panels felt that the savings available under the recurring heads in any one year may be allowed to be carried forward to the subsequent year provided at least 50% has been spent during the year concerned under the particular head.

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12. The Geology and Geophysics Panel considered the request of Geological Survey of India regarding making available a copy of each thesis accepted by the University in Geology & Geophysics and felt that, keeping in view the practical difficulties and also, the expenditure to be incurred by the students in getting additional copies for this purpose, it would be appropriate to request the universities to inform annually the Geological Survey of India with regard to the theses accepted for award of Ph.D. degrees in Geology and other earth science subjects. The GSI could then obtain, on loan, the university library copy and prepare a microfilm which could be stored and made available as reference material for persons interested not only in the GSI but also for university personnel. If GSI could have duplicate copies of such microfilms, it could also have a lending service so that other universities can obtain them on loan for definite periods.

13. The Panel in Mathematics felt that the organisation of two-year Post-M.Sc., Pre-Ph.D. training courses could be included under the Faculty Improvement Programme of the UGC. The departments to be designated to accept Teacher Fellowships may be encouraged to organise post-M.Sc. courses also in special areas in Mathematics. The Commission as soon as possible may invite proposals from universities, in consultation with the Panel, so as to identify departments as being eligible for support in this regard. Such departments may be provided with a fixed number of fellowships for students admitted to two-year post-M.Sc. courses, in addition to Teacher Fellowships. They may also be given assistance for other facilities required for implementing this programme.

14. The Panels recommended that steps may be taken by UGC to include the I.I.Ts. and the National Laboratories in the list of laboratories approved for study/research, where fellowships could be availed of by teachers under the Teacher Fellowship Programme. Such a list should cover all laboratories of CSIR, Department of Atomic Energy, Department of Space, ICAR and the Agricultural Universities, all the I.I.Ts. and various other National Laboratories.

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Appendix-A to the Part-II of the  
Minutes of the meeting of the  
UGC held on 14th & 15th  
..... (Item 6) July 1975

OSMANIA UNIVERSITY

	<u>Rs. in lakhs</u>
<u>Spill-over</u>	8.79
<u>Basic Grants:-</u>	12.50
<u>New Allocations</u>	
<u>Non-Recurring:</u>	
Books	20.70
Equipment	31.27
Others	7.75
Buildings	4.50
	<u>85.51</u>

Recurring:

Staff            11 Professors, 24 Readers,  
                  10 Lecturers, 6 others.

Junior            maximum 26 (at Rs. 400/- p.m.) at  
Fellowships: any given time during the plan  
                  period and as per guidelines laid  
                  down by the Commission.

(Details attached in enclosures)

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Encl. to Appendix A.

OSMANIA

<u>S.No.</u>	<u>Department</u>	<u>Books</u> (Rs. in lakhs)	<u>Equipment</u> (Rs. in lakhs)	<u>Others</u> (Rs. in lakhs)
1.	Mathematics	0.50	-	
2.	Statistics	0.50	0.50	
3.	Physics	0.50	4.00	
4.	Centres of Advanced Study in Astronomy.	0.50	0.50	
5.	Chemistry	1.00	2.50	
6.	Biochemistry	1.00	2.00	
7.	Botany	0.50	2.00	1.00 Garden & Green house @0.50 each)
8.	Zoology	0.30	2.00	
9.	Genetics	0.50	1.50	
10.	Microbiology	0.30	1.00	
11.	Geology	0.30	2.00	
12.	Centre for Exploration Geophysics	0.30	2.00	
13.	Central Workshop and C.I.S.L.	-	10.00	
14.	Geography	0.20	0.30	
15.	Economics	0.30	-	
16.	Pol. Science	0.30	-	
17.	Public Administration	0.10	0.10	
18.	Psychology	0.30	-	
19.	History	0.30	-	
20.	Education	0.10	0.12	0.25 Furniture Rs. 0.15 Research Support 0.10
21.	Philosophy	0.30	-	
22.	Commerce	0.30	0.10	
23.	Sociology	0.30	0.10	
24.	Journalism	0.10	0.30	



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Encl. to Appx. A

OSMANIA

<u>S.No. Department</u>	<u>UGC Share</u> <u>Rs. in lakhs</u>		<u>Buildings</u> <u>University Share</u> <u>Rs. in lakhs</u>
1. Bio-Chemistry	1.50	50:50%	1.50
2. Genetics	1.00 (Rs. 50,000 for Animal House and Rs. 50,000 for Green House)	100%	nil
3. Central Instru- mentation Service Facility.	2.00	100%	nil
Total	<u>4.50</u>		<u>1.50</u>

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Encl. to  
APPENDIX "A"

OSMANIA UNIVERSITY

ADDITIONAL STAFF POSITIONS APPROVED.

RECURRING for the duration of the V Plan Period i.e. upto end of 1978-79.

<u>S.No.</u>	<u>Department</u>	
1.	Mathematics	1P (Appd. Math) 1L (Fluid Hydrodynamics)
2.	Statistics	1P (Appd. Stat.) 1R (Appd. Stat.)
3.	Physics	1P (Electronics) 1P (S.S. Physics) 2R (Electronics)
4.	Chemistry	1R (High Polymers/Agro-Chemistry and pesticised)
5.	Biochemistry	2R (1 in Clinical Bio-Chemistry & 1 in Plant Bio-Chemistry)
6.	Botany	1P (Plant Physiology)
7.	Zoology	1R (Animal Physiology) 1L (Endocrinology)
8.	Genetics	1R (Plant Genetics). 1L
9.	Microbiology	1P (Microbiology) 1R 1L
10.	Geology	1P (Geo-Chemistry) 1R (Hydro-Geology)
11.	Central Instru- mentation Service Facility	5 Others (1 Instrumentation Engineer 1 Jr. Engineer/Scientist, 3 Technicians).
12.	Geography	1R 1L

p.t.o.



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Encl. to  
Appendix A

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- 4 -

13.	Economics	1P (Gen. Eco. Theory) 2R (Mon. Theory & Math Economics) 1L (Labour Economics).
14.	Political Science	1P 1R 1L
15.	Public Administration	2R
16.	Psychology	2R (1R in Industrial Psychology & 1R in Psycho-Metrics)
17.	History	1P (Modern Social and Economics History) 1L ( <del>Medical</del> I - History) <i>Medical</i>
18.	Education	1P 1R
19.	Philosophy	1R (Symbolic Logic/Philosophy of Science)
20.	Sociology	1R
21.	Journalism	1 Other (Editorial assistant)
22.	English	1R 1L
23.	Urdu	1R 1L
24.	Persian Studies	1R

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11P	24R	10L	6 Others
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FELLOWSHIPS = 26

N.B. (i) P= Professor R = Reader L= Lecturer

(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated against posts above, no change can be made without prior approval of the Commission.

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Appendix B to Part-II to the Minutes of the meeting of UGC held on 14th & 15th July 1975 (Item No. 6)

ANDHRA UNIVERSITY

	<u>Rs. in lakhs</u>
<u>Spill-over</u>	10.36
<u>New allocations</u>	
<u>Non-Recurring</u>	
Books	11.30
Equipment	22.35
Others	12.55
Buildings	9.25
	<hr/> 65.81 <hr/>

Recurring

*11 Professors & Readers*

Staff: ~~11 Professors & Readers~~ 23 Lecturers and 6 others  
Junior. maximum 20 (Rs. 400/- p.m.) at any given time  
Fellowships: in the V plan period and as per guidelines laid down by U.G.C.

\*Sum of Rs. 3.00 lakhs for Books and Rs. 5.00 lakhs for Equipment as basic grant forms part of the New Allocations.

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A N D H R A

Enclosure to Appx. B.

<u>S.No.</u>	<u>Department</u>	<u>Books</u> (Rs. in lakhs)	<u>Equipment</u> (Rs. in lakhs)	<u>Others</u> (Rs. in lakhs)
1.	Mathematics	0.20	0.10	
2.	Appl. Maths.	0.15	-	
3.	Statistics	0.25	0.25	
4.	Physics.	0.30	2.00	
5.	Nuclear Physics	0.30	1.00	
6.	Appl. Physics	0.15	1.00	
7.	Meteorology & Oceanography.	0.10	0.75	
8.	Chemistry	0.50	2.00	1.00 (Renovation of Labs)
9.	Biochemistry	0.50	1.00	0.75 (Glassware & Chemical)
10.	Botany	0.30	1.00	
11.	Zoology	0.30	1.50	
12.	Earth Science	-	-	
13.	Geology	0.30	1.50	
14.	Geophysics	0.15	1.00	
15.	Geography	0.30	1.00	
16.	Marine Sciences	0.30	1.00	1.00 (Hiring Research Vessel) 1.00 (Cold Room Storage etc.)
17.	Environmental Sc.	-	0.30	
18.	Human Genetics	0.25	0.50	
19.	Economics	0.30	0.30	
20.	Cooperation & Appl. Economics.	0.30	0.30	
21.	Pol. & Public Administration	0.10	-	
22.	Anthropology	-	-	
23.	Sociology and Social Work	0.30	-	
24.	New Deptt. of Social Work	0.30	-	
25.	Commerce	0.10	0.15	
26.	Law	0.30	-	
27.	Philosophy	0.30	-	
28.	Paracychology & Psychology.	0.30	1.00	
29.	Education	0.15	0.15	
30.	History & Arch.	-	-	
31.	English	0.10	0.15	
32.	Sanskrit	0.10	-	0.05 (Typewriter Devnagri)
33.	Hindi	0.10	0.10	

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	<u>Books</u>	<u>Enclosure to Appx. B.</u>	
		<u>Eqpt.</u>	<u>Others</u>
34. Telugu	0.10	-	-
35. Linguistics	-	-	-
36. Library Science	0.10	-	-
37. Journalism	-	-	-
38. C.I.S.L.	-	4.00	-
39. Computer Centre	-	-	-
40. Central Lib.	4.00	0.30	-
41. Publications	-	-	1.00
42. Visiting Professorship.	-	-	2.00
43. Faculty Improvement Programme.	-	-	5.00
44. Science Society Project.	-	-	0.75
	<hr/>	<hr/>	<hr/>
Total	11.30	22.35	12.55
	<hr/>	<hr/>	<hr/>

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Enclosure to Appx. B

ANDHRA UNIVERSITY

S.No.	Department	UGC SHARE Rs. in Lakhs		Buildings - State Govt. Share Rs. in lakhs
1.	Statistics	0.75	(@ 50:50)	0.75
2.	Geography	1.50	(@ 50:50)	1.50
3.	Human Genetics (Additional space for School of Bio-sciences)	2.50	(@ 50:50)	2.50
4.	School of Economics	1.00	(@ 50:50)	1.00
5.	Central Instrumentat- ion Services Laboratory and Computer Centre	3.00	(@ 100% )	--
6.	Library reference services	0.50	(50:50 )	0.50
	Total	9.25		6.25

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Enclosure to

APPENDIX-B

ANDHRA UNIVERSITY

ADDITIONAL STAFF POSITIONS (RECURRING)

- 1. Applied Maths                      1R (Bio Stat)
- 2. Physics                              1P (Acoustic)  
    1R (Theoretical Physics)
- 3. Statistics                            2R (1 in Econometrics & 1 in Demography)
- 4. Applied Physics                    2L (1 in instrumentation and 1 in Electronics)
- 5. Metereology &                      1R  
Oceanography                        1L
- 6. Chemistry                           1P (Inorganic Chemistry)  
    1R (Marine Chem.)  
    2L (~~for School~~)
- 7. Botany                                2R (One in Marine Algae and one in Physiology)  
    1L (Developmental Biology)
- 8. Zoology                               1R (Hydrography or Fishery Science)
- 9. Geology                               2R (1 in Hydrogeology and 1 in Marine Sciences)
- 10. Bio-Chemistry                    2L
- 11. Geophysics                        1R  
    1L
- 12. Geography                         1L (Cartography or Industrial/Agricultural  
    Geography)
- 13. Marine Sciences                   1P (Marine Biology)  
    2R (One in Marine Physiology and one in  
    Physical Oceanography)  
    3L (one in Marine Chem. one in Marine  
    Geophysics and one in Marine Geology/  
    Zoology).
- 14. Environmental Sciences          1P ( Ecology/Environmental Biology)  
    1R (Microbiology/Bio-Physics)
- 15. Marine Studies                    1R  
    1L
- 16. Human Genetics                   1L (in genetics)

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- 17. Economics 2P (one P in Economic theory and one P in Economics of Development)  
1R (in Quantitative Economics)  
1L (Industrial Economics)
- 18. Coop. & Applied Economics. 1P (International Trade)  
2R (one in Growth Economics and one in Rural finance and cooperation)  
1L (Agriculture marketing)
- 19 Sanskrit 1R
- 20. Hindi 1L
- 21. Politics & Public Admn. 2L (One for politics and one for Public Admn.)
- 22. Sociology 1R
- 23. Social Work 1P  
1R
- 24. Commerce 1P (Specialised preferably in business finance or personnel Management)  
1 Other (Case Analyst)
- 25. Law 1P (Maritime Law)  
1R (Oceanography Law)
- 26. Philosophy 1P (Epistemology/Metaphysics/Indian Philosophy)  
1R (Modern logic or phenomenological Analysis)
- 27. Para psychology 1R  
1L
- 28. History & Arch. 2L
- 29. Central Instrumentation Services Laboratory 5 Others (1 Engineer/1 Sr. Engineer/Scientist and 3 Technicians).

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11P 25R 23L & 6 Others

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FELLOWSHIPS  
20

N.B.(i) P= Professor R= Reader L = Lecturer  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated against posts above, no change can be made without prior approval of the Commission.

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Appendix C to Part II of the minutes of the UGC meeting held on 14th/15th/August, 1975 /July (Item No.6)

SRI VENKATESHWARA UNIVERSITY

Rs. in lakhs

A. Spill-Over 1.85

B. Basic Grants

Books	3.00 lakhs
Equipment	5.00 lakhs
	<u>8.00 lakhs</u>

C. New Allocations

N.R.

Books	10.25
Equipment	14.60
Others	7.00
Buildings	3.25
	<u>35.10 lakhs</u>

\*\* Maximum 20 (Rs. 400/- p.m.) at any given time during Vth plan period and as per guidelines laid down by the Commission).

A+B+C = Rs. 44.95 lakhs

R Staff : <sup>8</sup> Professors, <sup>17</sup> Readers, <sup>14</sup> Lecturers & 7 others.

Junior Fellowships : 20 \*\*

(Details enclosed)



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Enclosure to Appx. C.

SRI VENKAT ESHWARA UNIVERSITY

(Rs. in Lakhs)

<u>S.No.</u>	<u>Department</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
1.	Mathematics	0.20	-	
2.	Statistics	0.30	1.00	
3.	Physics	0.30	2.00	
4.	Chemistry	1.00	2.00	0.50 High Vacuum Line
5.	Geology	0.30	1.00	
6.	Zoology	0.30	2.00	1.00 Animal House
7.	Geography	0.30	0.30	
8.	Botany	0.30	1.50	0.50 Green House
9.	Bio-Chemistry	0.30	1.00	
10.	Home Science	0.30	0.30	
11.	Central Workshop Instrumentation & Services Lab.		3.00	
12.	Psychology	0.30	-	
13.	Philosophy	0.30	-	
14.	Economics	0.50	0.15	
15.	Centre for population studies	0.15	0.15	
16.	Deptt. of Pol. Sc.	0.30	-	
17.	Commerce	0.30	0.10	
18.	Law	0.30	-	
19.	Sociology and Anthropology	0.50	-	
20.	History	0.15	-	

p.t.o.

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Enclosure to Appx. C

- : 2 : -

<u>S.No.</u>	<u>Department</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
21.	English	0.15		
22.	Hindi	0.15		
23.	Telugu	0.15		
24.	Tamil	0.15		
25.	Sanskrit	0.15		
26.	Urdu, Arabic and Persian	0.10		
27.	Central Lib.	3.00		
28.	Visiting Professorships			1.00
29.	Faculty Improvement Programme.			3.00
30.	Publications			1.00
		<u>10.25</u>	<u>14.60</u>	<u>7.00</u>

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Enclosure to Appx. C.  
Buildings

SRI VENKATESWARA UNIVERSITY

S.No.	Department	U.G.C. Share (Rs. in lakhs)	State Govt. share (Rs. in lakhs)
1.	Central Instrumentation and Services Lab.	1.00 (@ 100% UGC's Share)	-
2.	Women's Hostel	2.25 (@ $\frac{3}{4}$ : $\frac{1}{4}$ )	0.75
	Total :	<u>3.25</u>	<u>0.75</u>

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SA

Enclosure to  
Appendix C

SRI VENKATESWARA UNIVERSITY  
RECURRING

Additional Staff Position approved for the duration of the Vth Plan period i.e. upto end of 1978-79.

- |     |   |  |
|-----|---|--|
| 1.  | Mathematics                             | 1P (Applied Mathematics)   |
| 2.  | Statistics                              | 1R (Stochastic Process )<br>1L (Data Analyst )   |
| 3.  | Physics                                 | 1P ( Spectroscopy )  |
| 4.  | Chemistry                               | 1P (Organic Chemistry )<br>2R (One in Inorganic & one in Organic)<br>2 Others (Technicians)  |
| 5.  | Geology                                 | 1P (Petrology/Hydrology)   |
| 6.  | Zoology                                 | 1P (Comparative Physiology/<br>Neurophysiology)<br>2L (One each in reproductive<br>Biology & Ecology)  |
| 7.  | Geography                               | 1R (Agricultural Geography)<br>1L (Geomorphology)  |
| 8.  | Botany                                  | 1P (Preferably in Virology)<br>2R (Plant Physiology and<br>Developmental Biology)  |
| 9.  | Biochemistry                            | 1R<br>1L   |
| 10. | Home Science                            | 1L (Exceptional Children<br>Specialist)  |
| 11. | Central Instrumentation & Services Lab. | 5 Others (1 Instrumental Engineer,<br>1 Jr. Engineer and 3<br>Technicians) / Scientist   |
| 12. | Psychology                              | 1R (in counselling psychology &<br>1L (Community Psychology)   |
| 13. | Philosophy                              | 1R (Symbolic Logic)  |
| 14. | Economics                               | 3R (One each in Specialisations<br>in Mathematical Economics<br>& Stat/Econo Economics<br>Theory or Monetary Economics/<br>Labour Economics & Inter-<br>national Trade). |

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Enclosure to Appx. C

- 2 -

15.	Centre for Population Studies	1P (Demography) 1R (Statistical methods in Demographic Analysis and Census material) 1L (Family Planning)
16.	Deptt. of Political Science	1L
17.	Commerce	1R 1L
18.	Law	-
19.	Sociology & Anthropology	-
20.	English	1L
21.	Telugu	1R (Comparative Literature)
22.	Sanskrit	1L (Pali/Prakrit/Telugu)
23.	Education	1P, 2R, 2L (Sanctioned during IV Plan)

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8P, 17R, 14L 7 others

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FELLOWSHIPS = 20

N.B. (i) P = Professor R = Reader L = Lecturer

(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated against posts above, no change can be made without prior approval of the Commission.

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Appendix D to the Part II  
of the minutes of the UGC  
meeting held on 14th/15th  
July, 1975 (Item No.6)

OSMANIA UNIVERSITY

P.G. CENTRE, WARANGAL :

	<u>Rs. in lakhs</u>
Basic grants	3.00
<u>New Allocations</u>	
<u>Non-Recurring</u>	
Books -	6.60
Equipment	9.35
Others	1.00
Buildings	6.00
Total :	<u>25.95</u>

Recurring

Staff: 15 Readers, 9 Lecturers, 2 Others  
(Junior

{ Fellowships : Maximum 10 (Rs. 400/- p.m.) at any given  
time in the Vth plan period and as per  
guidelines laid down by the U.G.C.

(Details attached in enclosures)

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Encl. to  
Appendix D

P.G. Centre  
Warangal  
Osmania University

Rs. in lakhs

<u>S.No.</u>	<u>Department</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
1.	Physics	0.70	2.00	
2.	Mathematics	0.70	0.35	
3.	Chemistry	0.70	2.00	
4.	Botany	0.70	1.50	
*5.	Zoology	0.70	1.50	*0.50 Green House 0.50 Animal House
6.	Commerce	0.70	0.25	
7.	Public Administration	0.70		
8.	English	0.70	0.10	
9.	Telugu	0.70	0.15	
10.	Economics	0.30	-	
11.	Central-Workshop	1.50	1.50	
		<u>6.60</u>	<u>9.35</u>	<u>1.00 (Others)</u>

BUILDINGS

	<u>U.G.C. Share</u>	<u>State Govt. Share</u>
Science Block (including Workshop) 50 : 50	2.50 (50 : 50 )	2.50
Humanities Block 50 : 50	2.00 (50 : 50 )	2.00
Hostel for girls (40) 75 : 25	1.50 (3 : 1 ) 4 4	0.375
Total :	<u>6.00</u>	<u>4.875</u>

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POST GRADUATE CENTRE WARANGAL

OSMANIA UNIVERSITY

ADDITIONAL STAFF POSITIONS APPROVED FOR THE DURATION OF VTH PLAN  
RECURRING i.e. UPTO THE END OF 1978-79

- |     |                  |  |
|-----|------------------|--|
| 1.  | Physics          | 2R (1 in Solid State theory and<br>1 in Solid State Electronics)   |
| 2.  | Mathematics      | 1R ( Statistics )<br>1L ( Topological Dynamics )   |
| 3.  | Chemistry        | 2R (1 in Organic Chemistry &<br>1 in Chemistry /Photo-   |
| 4.  | Botany           | 1R (Physiology/Biochemistry)<br>2L (1 in Biochemistry )  |
| 5.  | Zoology          | 2R ( 1 in Comparative Endocrinology &<br>1 in Cell Biology or Cell Physiology)   |
| 6.  | Commerce         | 2R   |
| 7.  | Public Admn.     | 1R   |
| 8.  | English          | 1R<br>1L   |
| 9.  | Telugu           | 1R<br>1L   |
| 10. | Economics        | 2R (Monetary Economics & Agricultural<br>Economics)<br>4L (International Trade, International<br>Economics & Economic Development ). |
| 11. | Central Workshop | 2 Others (Electronics Expert & Mechanics)  |

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15 Readers, 9 Lecturers, 2 Others

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Junior

Fellowships = 10

N.B. (i) P = Professor, R = Reader, L = Lecturer.

(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of posts above, filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated againsts posts above, no change can be made without prior approval of the Commission.

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Appendix E to Part II of the minutes of the UGC meeting held on 14th & 15th July 1975 (Item No.6)

POSTGRADUATE CENTRE, GUNTUR  
(ANDHRA UNIVERSITY)

	<u>Rs. in lakhs</u>
Spill-over	-
Basic	3.00
<u>New Allocations:</u>	
<u>Non-Recurring</u>	
Books	4.00
Equipment	8.02
Others	<del>2.50</del>
Buildings	<del>9.37</del>
	<u>26.89</u>
<u>Recurring</u>	
Staff	2P, 11R, 16L, 3-others 400
Fellowships	11 (Maximum eleven (Rs. . . /p.m.) at any given time during the plan period and guidelines laid down by the Commission.)
/as per	
	(Details attached)

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Postgraduate Centre, Guntur  
(Andhra University)

Rs in lakhs

<u>Department</u>	<u>Books</u> I	<u>Equipment</u> I	<u>Others</u>	
English	0.15	0.07		
Telugu	0.15			
Mathematics	0.20			
Physics	0.40	2.00		
Chemistry	0.70	2.00		
Botany	0.40	1.50	1.50	*Glass-House field-station 50:50
Zoology	0.40	1.50		
Central Workshop	-	0.70		
Economics	0.20	0.15	1.00	100%
Commerce	0.20	0.10		
History & Archaeology	0.20			
Central Lib.	<u>1.00</u> <u>4.00</u>	<u>8.02</u>	<u>2.50</u>	<del>* State Govt. 1.50</del>

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Encl. to Appx. E.

POSTGRADUATE CENTRE (GUNTUR)  
(Andhra University)

Rs. in lakhs

<u>Sr.No.</u>	<u>Department</u>	<u>UGC share</u>	<u>State Govt. Share</u>
1.	Science Block	3.00 (50:50)	3.00
2.	Humanities Block	2.00 ( " )	2.00
3.	Central Library	2.00 ( " )	2.00
4.	50 Men's hostel	1.25 ( " )	1.25
5.	30 Women's Hostel	1.25 ( $\frac{3}{4}:\frac{1}{4}$ )	0.375
		<u>9.375</u>	<u>8.625</u>

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POSTGRADUATE CENTRE

GUNTUR

Encl to Appx. E

(Additional Staff Positions approved for the duration of the Vth Plan period ending 1978-79).

- |   |  |
|---|--|
| 1. English                                      | 1P<br>1R<br>2L   |
| 2. Telugu                                       | 1L   |
| 3. Mathematics                                  | 1R( Boolean Algebra )<br>1L( Statistics )  |
| 4. Physics                                      | 1R( Applied Spectroscopy )<br>2L   |
| 5. Chemistry                                    | 2R( 1 in organic & 1 in Inorganic )<br>2L( 1 in organic and 1 in physical )  |
| 6. Botany                                       | 2R( Plant Physiology/Plant Embryology/& Plant Pathology )  |
| 7. Zoology                                      | 1P( In Limnology ) ( in Limnology )<br>1R( Fishery Science/Physiology )<br>1L  |
| 8. Economics                                    | 1R( Mathematical Economics )<br>1L( Agricultural Economics )   |
| 9. Commerce                                     | 1R<br>3L   |
| 10. History & Arch.                             | 1R   |
| 11. Central Wkshop (technical staff) 3- Others. | 3L( one lecturer preferably with special knowledge of either Budhist period or Budhist art and Architecture and 1 lecturer in Geology with relevance to pre-historic archaeology )<br><hr/> 2P    11R    16L    and 3 others |

Fellowships-11

N.B.(i) P= Professor, R=Reader, L=Lecturer  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto the end of 1978-79. Wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

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/July

Appendix F to the Part II of the minutes of the UGC Meeting held on 14th/15th August, 1975 (Item No. 6)

P.G. CENTRE, ANANTPUR

( Sri Venkateswara University )

Rs. in lakhs

Spillover

-

Basic

3.00

New Allocations

Non-Recurring

Books

5.55

Equipment

9.60

Others

1.00

Buildings

7.25

26.40

Recurring

\*\* Staff : 2 Professors, 11 Readers, 15 Lecturers

3 Others

Junior

Fellowships

Maximum seven (Rs. 400/- p.m.) at any given time during the plan period and as per guidelines laid down by the Commission.

\*\* p= Professor R= Reader L= Lecturer  
O= Others

Appendix A to the Report of  
the Committee on the  
Organization of the  
Department of the Interior

(Part V - Administration and Finance)

Estimated

	By Item
2,200	Base
	<u>New Allocations</u>
	<u>H. J. Wells</u>
1,500	Costs
2,600	Contingent
1,000	Other
2,000	Buildings
<u>33,700</u>	

Personnel

Staff: 2 Professors, 11 Agents, 2 Clerks

3 Clerks

Estimated  
Total: 2000  
Total: 2000  
Total: 2000  
Total: 2000  
Total: 2000

\* P-1000  
P-1000  
P-1000

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--2--

Enclosure to  
Appendix F

Rs. in lakhs

P.G. Centre, Anantapur

Sri Venkateshwara University

<u>S.No.</u>	<u>Departments</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
1.	English	0.10	0.10	
2.	Telugu	0.10	0.10	
3.	Economics	0.40	0.30	
4.	Commerce	0.30	0.25	
5.	Mathematics	0.70	0.25 0.10**	** Computer Centre time
6.	Physics	0.70	2.00	
7.	Central Workshop		1.50	
8.	Chemistry	1.00	3.00	
9.	Legal Studies	1.25	-	
10.	Biosciences	1.00	2.00	1.00 (Animal House)
		<u>5.55</u>	<u>9.60</u>	<u>1.00</u>

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Enclosure to Appx. F

POSTGRADUATE CENTRE ANANTAPUR  
Sri Venkateswara University

B U I L D I N G S

<u>S.No.</u>	<u>Department</u>	<u>UGC Share</u> <u>Rs. in lakhs</u>	<u>State Govt.</u> <u>Share</u> <u>Rs. in lakhs</u>
1.	Central Workshop	1.00 (100%)	-
2.	Legal Studies Commerce & Economics	1.50 (50 : 50)	1.50
3.	Bio Sciences Block	3.00	3.00
4.	Hostel for Men (30)	1.00 (50 : 50)	1.00
5.	Women's Hostel (25)	0.75	0.25
		<u>7.25</u>	<u>5.75</u>



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Enclosure to Appx. F.

POSTGRADUATE CENTRE ANANTAPUR

SRI VANKATESWARA UNIVERSITY

ADDITIONAL STAFF POSITIONS

APPROVED DURING THE VTH PLAN PERIOD ENDING 1978- 1979.

R E C U R R I N G

1.	English	1R 1L
2.	Telugu	1R 1L
3.	Economics	1R (Mathematical Economic) 3L (1 in Public finance, 1 in Oceanography and 1 in Agricultural Economics)
4.	Commerce	1R (International Trade & Finance) 2L (1 in Labour Economic & 1 in Cooperative Finance)
5.	Mathematics	1R (Pure Maths) 1L (Statistics)
6.	Physics	1R (Semi Conductor Electronics) 1L
7.	Central Workshop	3 Others (1 Instrumentation Engineer, 1 Foreman and 1 Electronic Assistant)
8.	Chemistry	1R (Inorganic Chemistry) 2L (1 in Organic Chemistry & 1 in Physical Organic Chemistry)
9.	Bio Sciences	2R (1 in Botany and 1 in Zoology) 4R (1 in Biochemistry) 4L (2 in Botany & 2 in Zoology)

---

2 Professors, 11 Readers, 15 Lecturers  
3-Others

Fellowships = 7

N.B. (i) P= Professors , R=Reader, L= Lecturer O= Others

(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated against posts above, no change can be made without prior approval of the Commission.

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APPENDIX-G to the Part-II of the  
Minutes of the UGC meeting held on 14th  
and 15th ~~August~~, 1975 (Item No. 7)  
July

UNIVERSITY OF COCHIN

	<u>Rs. in lakhs</u>
Spillover	3.23
Basic grant	8.00
<u>New Allocations:</u>	
<u>Non-Recurring</u>	
Books	13.90
Equipment	13.65
Others	2.80
Buildings	<del>13.50</del>
	<u>55.08</u>

Recurring

- \* Staff 8P, 15R, 12L 10 others  
Junior Fellowships 10 (Maximum 10 (Rs. 400/- p.m.)  
at any given time in the Vth  
plan period and as per guidelines  
laid down by the Commission).

\*P= Professor R= Reader L= Lecturer.

(Details as in attached enclosures).

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Enclosure to Appx.G

COCHIN UNIVERSITY - NON-RECURRING

<u>S.No.</u>	<u>Department</u>	<u>Books</u> Rs. in lakhs	<u>Equipment</u> Rs. in lakhs	<u>Others</u> Rs. in lakhs
1.	Physics	1.00	2.00	
2.	Appd. Chem.	1.50	3.00	0.50 gas plant
3.	Maths & Stat	1.50	0.15	
4.	Marine Sciences	1.50	3.00	0.50 Aquarium
5.	Microbiology	1.00	1.50	
6.	Law	1.50	-	
7.	Appd. Economics	1.00	-	0.30 Survey and monographs
8.	Commerce	0.50	-	
9.	Hindi	0.25	-	
10.	Foreign Languages.	0.15	-	
11.	Central Workshop & Instrumentation & service Lab.	-	4.00	
12.	University Lib.	4.00	-	
13.	Publications	-	-	0.50 (Total)
14.	Visiting Professorships	-	-	1.80 (Total)
		13.90	13.65	2.80

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Enclosure to Appx.G.

COCHIN UNIVERSITY

<u>S.No.</u>	<u>Department</u>	<u>BUILDINGS</u>		
		<u>UGC Share</u>		<u>State Govt. Share</u>
		Rs. in lakhs		Rs. in lakhs
1.	Marine Sciences	1.50	(50:50)	1.50
2.	** C.I.S.L	1.00	100%	-
3.	University Library.	6.00	(50:50)	6.00
4.	Men's Hostel	1.50	(50:50)	1.50
5.	Staff Quarters	2.00	(50:50)	2.00
6.	Guest House	1.50	(50:50)	1.50
		<u>13.50</u>		<u>12.50</u>

\*\* Central Instrumentation Services Laboratory.

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Enclosure to Appx.G.

COCHIN UNIVERSITY

RECURRING

ADDITIONAL STAFF POSITIONS

1978

APPROVED DURING THE FIFTH PLAN PERIOD ENDING : 31-3-79.

<u>S.No.</u>	<u>Department</u>	
1.	Physics	1P } Both in Industrial Physics. 1R }
2.	Applied Chemistry	2P (Polymer Chemistry, Industrial Chemistry) 2R (Industrial Chem. 1 Analytical Chem.) 1L
3.	Maths & Statistics	2P (App. Math & Pure Math) 1R (Statistics) 1L (Pure Math)
4.	Marine Sciences	2P (Chemical Oceanography, Marine Geology) 3R (1 Marine Biology, 1 Chemical Oceanography 1 Physical Oceanography) 1L
5.	Microbiology	2R (Microbiology, Bio Chemistry) 2L
6.	Law	3R (Administrative Law, Labour Law, Criminal Law or Tax Law) 2L
7.	Applied Economics	1P 2R All in 1L (Applied Economics)
8.	Commerce	-
9.	Hindi	1R 1L
10.	Foreign Languages	3L (One in each French, German & Russian)
11.	Workshop & Instrumentation & Service Lab.	1-0 (Instrumentation Engineer) 1-0 (Junior Engineer/Scientist) 4-0 (Technicians)
12.	University Library	4-0 Others (1 Dy. Lib. 1 Asst. Lib, 2 Tech. Asstt.)

8P

15R

12L

10-0thers

Fellowships

10

- N.B.(i) P= Professor R= Reader L= Lecturer O= Others  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of posts above, filled from the date of appointment upto end of 1978-79. Wherever, specialisation have been indicated against posts above, no change can be made without prior approval of the Commission.

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Appendix 4 to Part-II of the minutes of the  
UGC meeting held on 14th & 15th Aug. July  
1975 (Item No. 7)

CALICUT UNIVERSITY

	<u>Rs. in lakhs</u>
Spillover	14.43
Basic	8.00
<u>New Allocations</u>	
<u>Non-Recurring</u>	
Books	16.20
Equipment	14.50
Others	3.70
Buildings	11.25
	<u>68.08</u>

Recurring

- \* Staff 12 Professors, 26 Readers, 22 Lecturers  
7- Others.  
Junior (Maximum 20 (Rs. 400/- p.m.) at any given  
Fellowships: time in the V Plan period and as per  
guidelines laid down by the UGC.

(Details as in the attached enclosures)

\*P= Professor R= Reader L= Lecturer

O= Others.

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Enclosure to Appx. H

CALICUT UNIVERSITY

<u>S.No.</u>	<u>Department</u>	<u>Books</u> Rs. in lakhs	<u>Equipment</u> Rs. in lakhs	<u>Others</u> Rs. in lakhs
1.	Chemistry	1.00	1.50	
2.	Physics	2.00	3.00	
3.	Zoology	1.50	2.00	
4.	Botany	1.50	1.50	
5.	Unit of Life Sciences.	0.50	1.00	
6.	History	0.25	-	0.25 Museum
7.	Commerce	0.50	-	
8.	Hindi	0.20	-	
9.	Malayalam	0.20	-	0.45(0.30 Aircondition- ing MSS Sec. (0.15 for sound Recording appa- ratus.
10.	English	0.50	-	
11.	Arabic	0.20	-	
12.	Mathematics	1.00	0.20	
13.	Economics	0.50	-	
14.	Philosophy	0.50	-	
15.	Journalism	0.10	-	
16.	Psychology	0.50	-	
17.	University Library	5.00	-	
18.	Education	0.25	0.30	
19.	Central Workshop & Instt. Lab.	-	5.00	
20.	Visiting Professors	-	-	1.00 (Total 1.00)
21.	Faculty Improvement Programme	-	-	1.00 (Total 2.00)
22.	Publications	-	-	1.00
		<hr/>	<hr/>	<hr/>
		16.20	14.50	3.70
		<hr/>	<hr/>	<hr/>

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Enclosure to Appx. H

CALICUT UNIVERSITY

<u>S.No.</u>	<u>Department</u>	<u>UGC Share</u> Rs. in lakhs		<u>Buildings</u> <u>State Govt. Share</u> Rs. in lakhs
1.	Physics (Radiation Lab.)	1.50	(50:50)	1.50
2.	* and Green House)	1.00	100%	- **Botanical garden
3.	University Lib.	1.00	(50:50)	1.00
4.	School of Language & Social Sciences	2.00	(50:50)	2.00
5.	Staff Quarters	2.00	(50:50)	2.00
6.	Hostel (Women)	2.25	( $\frac{3}{4}$ : $\frac{1}{4}$ )	0.75
7.	Central Workshop & Instt. Lab.	1.50	100%	-
		<u>11.25</u>		<u>7.25</u>



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CALICUT UNIVERSITY  
RECURRING

ADDITIONAL STAFF POSITIONS APPROVED  
DURING THE FIFTH PLAN PERIOD ENDING 1 9 7 8 - 1 9 7 9.

1. Chemistry 1P (Natural Products)  
1R (Analytical Chemistry)  
1L
2. Physics 1P (Applied/Theoretical Physics)  
1R If it is in Appd. Physics, the reader should  
be in Th. Physics, or Vice-Versa.
3. Zoology 1P (Reproductive physiology)  
1R (Environ-mental Biology)  
1L
4. Botany 1P ( ) Between the P & R, they should cover  
1R ( ) wood anatomy and tissue culture or  
1L ( ) ethnobotanical studies.
5. Unit of Life Sciences 3R (Biochemistry, Microbiology & Physiology)
6. History 1P (One of the Senior positions may be in  
1R Medieval History).
7. Commerce 1R (Financial Management ~~or~~ Industry)  
1L
8. Hindi 2R  
1L
9. Malayalam 2R  
2L
10. English 1P (Preferably in language)  
1R  
1L
11. Arabic 1L
12. Mathematics 1P (Appd. Maths)  
2R ( 1 in Pure Ma-ths & 1 in Statistics)  
2L
13. Fine Arts & Drama 1P ( ) There should be flexibility in  
2R ( ) regard to qualification, emoluments and  
1L ( ) designations.
14. Economics 1P (Macro Economics)  
2R (one in political Econ. & one in Stats)  
3L

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Enclosure to Appx. H

- |     |  |                |   |
|-----|--|----------------|---|
| 15. | Philosophy   | 1P<br>1R<br>2L |   |
| 16. | Journalism   | 1R<br>1L       |   |
| 17. | Psychology   | 1P<br>1R<br>2L | Between P & R they should cover the Psychology of different groups of labour force) |
| 18. | Library  | 3 Others       | (2 Assistant Librarian,<br>1 Deputy Librarian)                                      |
| 19. | Education  | 1P<br>3R<br>2L | as per recommendations of IV Plan Committee for the Department.                     |
| 20. | General Workshop<br>Instrumentation &<br>Services Lab. | 4              | (Two Technicians)<br>(1 Instru. Engineer/1 Junior Engineer).<br>/Scientist          |

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12P    26R    22L    7 Others

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FELLOWSHIPS - 20

N.B. (i) P = Professor    R= Reader    L= Lecturer    O= Others

(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above filled, from the date of appointment upto end of 1978-79. Wherever, specialisations have been indicated against posts above, no change can be made without prior approval of the Commission.

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Appendix I to Part II of the minutes of the UGC meeting held on 14th & 15th July 1975 (Item No.7)

UNIVERSITY OF KERALA TRIVANDRUM

	Rs. in lakhs
Spill-over	18.68
Basic grant	12.50
<u>New Allocations</u>	
Non-Recurring	
Books	17.15
Equipment	22.50
Other	11.80
Building	9.00
	<u>91.63</u>

Recurring : Staff: 10 Professors, 28 Readers, 10 Lecturers, 7-others.

Jr. Fellowships: 25 (Maximum twenty five (Rs.400/-p.m.) at any given time during the plan period and/ per guidelines laid down by the Commission. (Details attached in enclosures )

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KERALA UNIVERSITY

Rs. in lakhs

<u>Departments</u>	<u>Books-</u> <u>I</u>	<u>Equipment</u> <u>I</u>	<u>Others</u>
1. Maths	0.50	-	
2. Statistics	0.50	1.00	
3. Physics	1.00	4.00	
4. Chemistry	1.00	4.00	
5. Bio-Chemistry	1.00	2.00	0.30 A.C.C. Unit
6. Geology	0.50	1.00	0.75 Vehicle
7. Botany	1.00	1.50	0.30 Seed garden
8. Aquatic Biology & Fisheries	1.00	-1.00 (including chartering of boats)	
9. Zoology	1.00	1.50	
10. Economics	0.30	-	
11. Politics	0.50	-	
12. Psychology	0.50	0.50	
13. History	0.50	-	
14. Sociology	0.50	-	
15. Malayalam	0.50	0.10	
16. Tamil	0.25	0.10	
17. Sanskrit	0.25	-	
18. English	0.50	-	
19. German	0.20	-	
20. Russian	0.25	-	
21. Linguistics	0.50	0.25 (	0.10 Field Work
22. Oriental Res. Instt. & Mss.Lib.	-	0.50	1.00 (1) Surveys (2) Air-conditioning, MSS Lib.
23. Education	0.15	0.50	0.10 Research Support.
24. Journalism	0.15	0.25	0.25 Visiting Experts/ Specialists.
25. Centre for Kerala Study	0.30	-	
26. Survey Res. Centre	-	-	0.50 Field work
27. Lib.sc.	0.30	-	
28. Central Lib.	4.00	0.30	
29. Cent. Wksp. & Instrumentation & services Lab.	-	4.00	
Visiting Professor -ships	-	-	2.00
30. Faculty Improvement Programme	-	-	4.00 (██████████)
31. Publications	-	-	1.00 (██████████)
32. University Press	-	-	1.50 (██████████)
	<u>12.45</u>	<u>22.50</u>	<u>11.80</u>

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KERALA UNIVERSITY

Enclosure to Appx. I (3)

BUILDINGS

<u>Sr. No.</u>	<u>Department</u>	<u>U.G.C. Share Rs. in lakhs</u>	<u>State-Govt. Share Rs. in lakhs</u>
1.	Aquatic Biology and Fisheries	0.50(@100%) (Renovation of Aquarium)	-
2.	Zoology	1.00(@100%) (Animal House and Rattery)	-
3.	Cent. Workshop and Instrumentation & Services Lab.	1.50(@100%)	-
4.	Science Block	6.00-(1st phase) (@ 50:50)	6.00
Total:		<u>9.00</u>	<u>6.00</u>

RECEIVED

SECRETARY

UNIVERSITY

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Enclosure to Appx. I (4)

Kerala University Additional Staff position  
approved for the duration of the Vth plan  
period i.e. upto 1978-79

Recurring

1. Mathematics 1P(Both in the area of applied Math.)  
1R
2. Statistics 1R
3. Physics 2P (One each in Applied Electronics and  
Space Physics)  
4R (One each in Material Sciences/Solid  
State Physics/Electronics and Space Physics.  
1L
4. Chemistry 1R (Mineral Chemistry)
5. Bio-Chemistry 1P  
1R  
1L
6. Geology 1P (Between them they should cover Marine  
1R (Geology/Economics Geology
7. Botany 1R Plant Physiology  
1L
8. Zoology 1P (Between them, they must cover Physiology/  
1R (Environmental Biology)
9. Aquatic Biology  
& Fisheries 2L
10. Economics 2R Political Economy/Micro-Economics  
Quantitative Analysis
11. Politics 1P (Political Sociology)  
1R
12. Psychology 1R In Industrial/Social Psychology  
1L
13. History 2L
14. Sociology 1P Sociology of Development/Urban Sociology  
1R
15. Malayalam 1P  
1R
16. Tamil 1P
17. Sanskrit 1R

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18. English	1R	English Language	
19. German	1R		
20. Russian	1R		
	1L		
21. Linguistics	1R		
22. Oriental Research Institute	1R		
23. Survey Research Centre	1R		
24. Central Workshop & Instrumentation Lab.	6-others	(One instrumentation Engineer, one Jr. Engineer/Scientist and 4 Technicians/Mechanics)	
25. Central Library	1-other		
26. Education	3R		
27. Journalism	1R		
	1L		
	<u>10 P</u>	<u>28R</u>	<u>10L</u> <u>7-others</u>

----- Fellowships ----- 25 -----

N.B. (i) P = Professor, R=Reader, L=Lecturer O= Others  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto the end of 1978-79. Wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

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Appendix-J to Part-II to the  
Minutes of the meeting of  
UGC held on 14th & 15th July,  
1975 (Item No.8):

UTKAL UNIVERSITY

Rupees in lakhs

(1)	Spill-over	22.42
(2)	New Allocations	
	(I) <u>Non-recurring:</u>	
	(a) Books	14.00*
	(b) Equipment	14.60
	(c) Building	15.63
	(d) Others	4.65
		<u>71.87</u>
	(II) <u>Recurring</u>	
	(a) Teaching & Technical Staff; Professors-4, Readers -15, Lecturers-12 and others-9.	
	(b) Junior Research Fellowships - Maximum-20(Rs.400/p.m.) at any given time in the Fifth plan period and as per guidelines laid down by UGC.	

\*A sum of Rs.4.00 lakhs for books and Rs.5.00 lakhs for equipment as basic grant allocated earlier to the University prior to the visit of the Fifth Plan Visiting Committee forms part of the New Allocations.



Enclosure to Appendix-3

New allocations as recommended by the Visiting Committee.

Department	UTKAL UNIVERSITY		Rs. in lakhs
	Books	Equipment	Others
<b>A. <u>Humanities &amp; Social Sciences</u></b>			
1. Commerce	0.20	0.12	-
2. English	0.37	0.25	-
3. History	0.25	0.15	-
4. Law	0.25	0.05	-
5. Psychology	0.25	0.40	-
6. Oriya	0.25	0.10	0.25 For Manuscripts
7. Philosophy	0.10	-	-
8. Pol. Science	0.25	-	-
9. Anal & App. Economics	0.25	-	-
10. Sanskrit	0.10	-	-
11. Sociology	0.50	-	-
12. Labour and Social Welfare	0.25	-	-
	<u>-3.02</u>	<u>1.07</u>	<u>0.25</u>
<b>B. <u>Science</u></b>			
1. Anthoropology	0.25	0.50	0.50 Vehicle
2. Botany	0.37	1.25	0.20 Museum 0.10 Herbarium 0.20 Bot. Garden 0.20 Fern House 0.20 Field Trips
3. Chemistry	0.37	1.30	-
4. Geology	0.37	1.00	0.20 Field Trips 0.50 Vehicle
5. Geography	0.25	0.40	0.20 Field Trips
6. Mathematics	0.10	0.40	-
7. Physics	0.37	1.50	-
8. Statistics	0.10	0.25	-
9. Zoology	0.37	1.25	0.50 Animal House 0.20 Museum 0.20 Field Trips
	<u>2.55</u>	<u>7.85</u>	<u>3.20</u>

Contd.

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<u>Department</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
Centre for Regional Studies.	-	-	0.25 (Speed grant Lum-sum Provision of Rs.10 lakhs)
<u>Others</u>			
1. Central Library	5.00	0.18	0.20 Air Conditioning
2. Central Workshop	-	0.50	
3. Health Centre	-	-	0.75
	5.00	0.68	
Grant Total	10.57	9.60	4.65

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Enclosure to Appendix-2

UTKAL UNIVERSITY

BUILDINGS

<u>S.No.</u>	<u>Department/Project</u>	<u>U.G.C.Share (Rs. in lakhs)</u>	<u>State Govt.Share - (Rs. in lakhs)</u>
1.	Law	1.55	1.55
2.	Geology	1.50	1.50
3.	Men's Hostels	4.50	4.50
4.	Women's Hostel(I)	6.75	2.25
5.	Canteen.	1.33	0.67
Total:		<u>15.63</u>	<u>10.47</u>

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Enclosure to Appendix-J

UTKAL UNIVERSITY

DETAILS OF ADDITIONAL STAFF RECOMMENDED

S.No.	Department	P	R	L	O
<b>A. FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES.</b>					
1.	Commerce	-	-	1	-
2.	English	-	1	-	-
3.	History	1	-	-	1*
4.	Law	-	1	-	-
5.	Oriya	-	1	1	-
6.	Psychology	1	-	1	-
7.	Philosophy	-	-	1	-
8.	Pol.Science	-	-	1	-
9.	Analytical & App.Eco.	-	1	1	-
10.	Sociology	1	1	1	-
11.	Labour Welfare	1	1	2	-
<b>B. FACULTY OF SCIENCE</b>					
1.	Anthropology	-	1	1	-
2.	Botany	-	1	-	-
3.	Chemistry	-	1	-	-
4.	Geology	-	1	-	-
5.	Geography	-	1	1	-
6.	Mathematics	-	1	-	-
7.	Physics	-	1	1	-
8.	Statistics	-	1	-	-
9.	Zoology	-	1	-	-
10.	Central Workshop	-	-	-	3+
11.	Health Centre	-	-	-	@

\*Museum Keeper-1  
 2. Animal House Keeper-1  
 3. Museum Asstt. 1  
 4. Asstt. 1  
 5. Technical Assistant. 1  
 +1. Electrician or Electric Mechnic. 1  
 2. Workshop Supdt. 1  
 3. Glass Blower/ Carpenter. 1  
 @Usual Staff required for Health Centre.

Fellowships - 20

N.B. (i) P=Professor, R=Reader, L=Lecturer, O=Others  
 (ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled, from the date of appointment upto the end of 1978-79. Wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

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Appendix-K to Part-II to the  
minutes of the meeting of UGC  
held on 14th & 15th July, 1975  
(Item No.8).

SAMBALPUR UNIVERSITY

	<u>Rs. in lakhs</u>
(1) <u>Spill-over</u>	8.39
(2) <u>New Allocations:</u>	
(I) <u>Non-recurring:</u>	
(a) Books	8.30 } *
(b) Equipment	10.27 }
(c) Building	20.80
(d) Others	3.05
	50.81
	Total: 50.81

(II) Recurring:

- (a) Teaching & Technical Staff: Professors-3, Readers-13  
Lecturers-12 & Others-8.
  
- (b) Junior Research Fellowships -  
Maximum - 20 (Rs.400/-p.m.) at any  
given time in the Fifth Plan period  
and as per guidelines laid down by  
UGC.

\* A sum of Rs.3.00 lakhs for books and Rs.5.00 lakhs for  
equipment as basic grant allocated earlier to the University  
prior to the visit of the Fifth Plan Visiting Committee forms  
part of the New Allocations.

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SAMBALPUR UNIVERSITY      Enclosure to Appendix-K  
New allocations as recommended by Visiting Committee

<u>Departments</u>	<u>Books</u>	<u>Equipment</u>	<u>Rs. in Lakhs</u> <u>Others</u>
<u>A. FACULTY OF SCIENCE</u>			
1. Physics	0.13	1.50	-
2. Chemistry	0.10	1.00	-
3. Biological Sciences	0.40	0.75	0.25 Museum 0.50 Animal House 0.20 Field Trips 0.10 Herbarium 0.40 Culture Room 0.40 Botanical Garden
4. Mathematics	0.25	-	-
<u>B. FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES:</u>			
5. English	0.13	0.25	-
6. Oriya	0.10	-	0.20 Developmental Research Survey Work.
7. History	0.10	-	0.50 Museum Building 0.20 Collection of Manuscripts.
8. Pol. Science	0.13	-	-
9. Economics	0.20	0.13	0.10 Use of Computer services. 0.10 Travelling Cost
<u>C. NEW DEPARTMENTS</u>			
10. Sociology & Anthropology	0.25	0.13	0.10 Field Trips
11. Home Science	0.13	0.50	-
12. Statistics	0.25	0.13	-
13. Library Science	0.13	0.13	-
<u>D. Others</u>			
14. Central Library	3.00	-	-
15. Central Workshop	-	0.75	-
 Grant Total (A+B+C+D):	<hr/> 5.30	5.27	3.05 <hr/>

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Enclosure to Appendix-K

SAMBALPUR UNIVERSITY

FINDINGS

<u>Departments</u>	<u>UGC's Share Rs. in lakhs</u>	<u>State Govt. Share Rs. in share</u>
Sociology & Anthropology	1.00	1.00
Home Science	1.00	1.00
3. Statistics	1.00	1.00
4. Central Library	5.00	5.00
5. Central Workshop	1.10	-
6. Men's Hostel(1)	4.50	4.50
7. Women's Hostel (1)	4.50	1.50
8. Canteen	1.20	0.60
9. Guest House.	1.50	2.53
Total:	20.80	17.13

SAMBALPUR UNIVERSITY

DETAILS OF ADDITIONAL STAFF RECOMMENDED

<u>S.No.</u>	<u>Departments</u>	<u>P</u>	<u>R</u>	<u>L</u>	<u>O</u>	<u>Remarks</u>
<u>A. FACULTY OF SCIENCE:</u>						
1.	Physics	-	1	1	-	
2.	Chemistry	-	1	1	-	
3.	Biological Sciences	-	1	1	-	
4.	Mathematics	-	1	-	-	
<u>B. FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES:</u>						
5.	English	-	1	1	-	
6.	Oriya	-	1	1	-	
7.	History	-	1	-	2*	* 1. Photographer-1 2. Curator-1
8.	Political Science	-	1	1	-	
9.	Economics	1	1	-	2*	* Statistical Asstt-2
<u>C. NEW DEPARTMENTS</u>						
10.	Sociology & Anthro- pology	1	1	2	-	
11.	Home Science	-	1	2	-	
12.	Statistics	1	1	-	-	
13.	Library Science	-	1	1	-	
<u>D. OTHERS</u>						
14.	Central Workshop	-	-	-	3*	* Workshop Suptd.-1 2. Electrician-1 3. Glass Blower/ Carpenter-1
15.	Development Officer	-	-	-	1	
16.	Health Centre	-	-	-	**	** Usual staff needed for the Health Centre.

Grand Total (A+B+C+D):            3    13    11    8

Fellowships=20

N.B. (i) P=Professor, R=Reader, L=Lecturer & O=others.  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled from the date of appointment upto the end of 1978-79. Wherever specialisation have been indicated against posts above no change can be made without prior approval of the Commission.



Appendix-L to Part-II to the minutes of the meeting of UGC held on 14th & 15th July, 1975 (Item No.8).

BERHAMPUR UNIVERSITY

Rupees in lakhs

(1) Spill-over	20.44
(2) New Allocations	
(I) <u>Non-recurring:</u>	
(a) Books	8.14
(b) Equipment	9.20
(c) Building	6.95
(d) Others	4.32
	<hr/>
Total:	49.05
	<hr/>

(II) Recurring:

- (a) Teaching & Technical Staff: Professors-12; Readers-13; Lecturers-5 and Others-5.
- (b) Junior Research Fellowships - Maximum - 20 (Rs.400/-p.m.) at any given time in the Fifth Plan period and as per guidelines laid down by UGC.

\* A sum of Rs.3.00 lakhs for books and Rs.5.00 lakhs for equipment as basic grant allocated earlier to the University prior to the visit of the Fifth Plan Visiting Committee forms part of the New Allocations.

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BERHAMPUR UNIVERSITY

Rs. in Lakhs

<u>Departments</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
<u>A. FACULTY OF SCIENCE</u>			
1. Chemistry	0.50	1.00	-
2. Physics	0.50	0.75	-
3. Botany	0.37	0.60	0.20 Air Conditioning of one room. 0.20 Museum 0.10 Herbarium 0.30 Botanical Garden 0.20 Fern House 0.20 Field Trips
4. Zoology	0.37	0.60	0.20 Museum 0.50 Animal House 0.20 Field Trips 0.20 Drosophiah Culture Room
5. Mathematics	0.37	-	-
<u>Faculty of Humanities &amp; Social Sciences:</u>			
6. History	0.25	-	0.45 Research Projects 0.10 Manuscripts 0.02 Travelling expenses.
7. Pol. Science	0.13	-	-
8. Oriya	0.05	-	0.10 Manuscripts
9. Economics	0.25	-	-
10. Labour & Social Welfare.	0.25	-	0.25 Field Trips
<u>NEW DEPARTMENTS</u>			
11. Journalism	0.05	-	-
12. English	0.25	-	-
13. Commerce	0.25	-	-
14. Linguistics	0.05	-	-
<u>Others</u>			
15. Research Centre in Marine Sciences	-	-	0.25 Lump provision of Rs.10 lakhs. Rs.5 lakhs each in IInd & IIIrd Priority.
16. Central Library	1.50	-	-
17. Gas Plant	-	-	0.85
18. Central Workshop	-	1.25	-
Total:	<u>5.14</u>	<u>4.20</u>	<u>4.32</u>

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Enclosure to Appendix-I

BERHAMPUR UNIVERSITY

BUILDING

<u>Sr. No.</u>	<u>Department/Project</u>	<u>U.G.C. Share (Rs. in lakhs)</u>	<u>State Govt. Share (Rs. in lakhs)</u>
1.	Central Library	3.75	3.75
2.	Central Workshop	0.50	-
3.	Health Centre	1.50	0.50
4.	Canteen	1.20	0.60
Total:		6.95	4.85

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BERHAMPUR UNIVERSITY

ADDITIONAL POSTS RECOMMENDED

	<u>P</u>	<u>R</u>	<u>L</u>	<u>O</u>	<u>Remarks</u>
<u>A. FACULTY OF SCIENCE</u>					
1. Chemistry	1	1	-	-	
2. Physics	1	1	-	-	
3. Botany	1	1	-	2*	*Herbarium Museum-1 Keeper Artist-cum- Photographer - 1
4. Zoology	1	1	-	-	
5. Mathematics	1	1	-	-	
<u>B. Faculty of Humanities &amp; Social Sciences:</u>					
6. History	1	1	-	-	
7. Pol. Science	1	1	-	-	
8. Oriya	1	1	-	-	
9. Economics	1	1	-	-	
10. Labour & social Welfare	1	1	-	-	
<u>New Departments</u>					
11. Journalism	-	1	2	-	
12. English	1	1	1	-	
13. Commerce	1	-	2	-	
14. Linguistics(Under Oriya Department)	-	1	-	-	
<u>Others</u>					
15. Central Workshop	-	-	-	3*	* Workshop Suptd.-1 Electrician Mechanic-1 Glass Blower/ Carpenter-1
16. Health Centre	-	-	-	**	** Usual Staff required.

Total:

12    13    5    5

Fellowships=20

- N.B. (i) P=Professor, R=Reader, L=Lecturer and O=others  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above, filled from the date of appointment upto the end of 1978-79. Wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

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Appendix-M to Part-II to the minutes of the meeting of UGC held on 14th & 15th July, 1975 (Item No.28):

KALYANI UNIVERSITY

Rupees in lakhs

(1) Spill-over 18.21

(2) New allocations:

(I) Non-recurring:

(a) Books	9.36	*
(b) Equipment	12.04	
(c) Building	14.25	
(d) Others	2.60	

Total 56.46

(II) Recurring:

(a) Teaching & Technical Staff Professors-8; Readers-8; Lecturers-14 and Others-3.

(b) Junior Research Fellowships- Maximum-20 (Rs.400/-p.m.) at any given time in the Fifth Plan period and as per guidelines laid down by UGC.

\* A sum of Rs.3.00 lakhs for books and Rs.5.00 lakhs for equipment as basic grant allocated earlier to the University prior to the visit of the Fifth Plan Visiting Committee forms part of the New Allocation.

Enclosure to Appendix-M

KALYANI UNIVERSITY

New allocations recommended by the Visiting Committee

<u>S.No.</u>	<u>Department</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
<b>A. FACULTY OF SCIENCE</b>				
1.	Mathematics	0.25	0.13	-
2.	Statistics	0.25	0.13	-
3.	Physics	0.38	1.00	-
4.	Chemistry	0.50	1.00	-
5.	Botany	0.38	1.00	1.00* Glass House & Harbarium Museum
6.	Zoology	0.38	1.00	1.00* Animal House & Glass House
<b>B. FACULTY OF ARTS:</b>				
1.	English	0.20	-	-
2.	Economics	0.25	-	-
3.	Sociology	0.20	-	0.30* For Field Work
4.	Bengali	0.10	-	-
5.	Physical Edn.	0.12	0.25	-
<b>C. NEW DEPARTMENTS</b>				
1.	Pol.Science	0.30	-	-
2.	History	0.30	-	0.15* For survey work
3.	Commerce	0.25	0.13	-
<b>D. OTHERS</b>				
1.	Gas Plant	-	1.00	-
2.	Central Workshop	-	1.00	-
3.	Central Library	2.50	0.40	-
4.	Trained Coaches	-	-	0.15 (75% of total provision of Rs.20,000)
<b>Grand Total :</b>		<b>6.36</b>	<b>7.04</b>	<b>2.60</b>

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Enclosure to Appendix-M

KALYANI UNIVERSITY

BUILDINGS

S.No.	Name of the Department/ Project	G.C. Share Rs. in lakhs	State Govt. Share Rs. in lakhs
1.	Economics, Political Science, History & Commerce Deptts.	3.00	3.00
2.	Central Library	3.75	3.75
3.	Health Centre	1.50	0.50
4.	Students Hostels (Boys)	4.50	4.50
5.	Guest House cum Staff Club	1.50	1.50
Total:		44.25	13.25

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Enclosure to Appendix-M

KALYANI UNIVERSITY

Additional posts recommended

	<u>P</u>	<u>R</u>	<u>L</u>	<u>O</u>
<b>A. <u>FACULTY OF SCIENCE:</u></b>				
1. Mathematics	1	-	-	-
2. Statistics	1	-	1	-
3. Physics	1	1	1	-
4. Chemistry	1	1	-	-
5. Botany	1	1	1	-
6. Zoology	-	1	-	-
<b>B. <u>FACULTY OF ARTS:</u></b>				
1. English	-	1	1	-
2. Economics	-	1	1	-
3. Sociology	-	1	1	-
4. Bengali	-	1	1	-
<b>C. <u>NEW DEPARTMENTS</u></b>				
1. <del>Sci.</del> Science	1	-	2	-
2. History	1	-	2	-
3. Commerce	1	-	3	-
<b>D. <u>OTHERS</u></b>				
1. Central Workshop	-	-	-	3* 1. Workshop Supdt. 1 2. Glass Blower/ Carpenter, 1 3. Electronic Mechanic. 1
2. Health Centre	-	-	-	@ Usual staff required for the Health Centre.
<b>Grand Total</b>	<b>8</b>	<b>4</b>	<b>14</b>	<b>3</b>

Fellowships - 20

N.B. (i) P= Professor, R=Reader, L=Lecturer, O= Other  
(ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of Posts above filled, from the date of appointment upto the end of 1978-79. Wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.



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Appendix N to Part II of the minutes  
of the UGC meeting held on ---  
14th & 15th July, 1975. (Item No. 35)

KASHMIR UNIVERSITY

Figures in lakhs

Spill-over	15.25
Basic grant i) Books	3.00
ii) Equipment	5.00

New Allocations  
(Non-Recurring) :

Books	10.70
Equipment	3.50
Others	3.50
Buildings	19.50
Total:	<u>60.45</u>

Recurring

Staff :           2 Professors, 9 Readers, 16 Lecturers &  
                  10 others.

Jr. Fellowships: ( Maximum Rs. 400/- p.m. at any given  
                          time during the Plan period and  
                          as per guidelines laid down  
                          by the Commission).

(Details attached in enclosures)

KASHMIR UNIVERSITY

Rs. in lakhs

<u>Departments</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
<u>Science Departments</u>			
	I	I	
1. Physics	0.25	2.00	1.00 (for Generator)
2. Gulmarg S.O. Research Observatory	0.25	-	
3. Chemistry	0.25	2.00	
4. Botany	0.25	2.00	
5. Zoology	0.25	2.00	
6. Mathematics	0.25	0.25	
<u>Humanities &amp; Social Sciences Deptts.</u>			
7. Economics	0.25	0.25	
8. Commerce	0.25	-	
9. History	0.20	-	
10. Political Sc.	0.20	-	
11. English	0.20	-	
12. Hindi	0.20	-	
13. Persian	0.05	-	
14. Urdu	0.05	-	
15. Russian Language	0.10	-	
16. Law	0.50	-	
17. Lib. Science	0.20	-	
18. Central Library	10.00	-	0.50 (for furniture)
19. Jr. Fellowships for all Departments (10 fellowships)			2.00
	<u>* 13.70</u>	<u>* 8.50</u>	<u>3.50</u>

\* includes Basic grant

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Encl. to Appendix 3N

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KASHMIR UNIVERSITY

BUILDINGS

<u>Sr. No.</u>	<u>Department</u>	<u>UGC share</u> <u>Rs. in lakhs</u>
1.	Physics(including Mathematics)Block	1.50
2.	Botany(Plant Fern House)	1.00
3.	Zoology(Animal House)	1.00
4.	Workshop	2.00
5.	Social Science Block	6.00
6.	Students hostel for 100 men	5.00
7.	Students Home	1.50
8.	Teachers Hostel	<u>1.50</u>
	Total:	<u>19.50</u>

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-4- Encl. to Appendix N

KASHMIR UNIVERSITY ADDITIONAL STAFF  
POSITION APPROVED FOR THE DURATION  
OF THE V-PLAN PERIOD i.e. UPTO  
1978-79

<u>Science Departments</u>	<u>Recurring</u>
1. Physics	1R(Solid State Electronics) 1L (Theoretical Physics)
2. Gulmarg Research Observatory	1R (Both in Atmospheric Physics) 1L (
3. Chemistry	1R (Analytical Chemistry) 2L
4. Botany	1R( Forest Ecology) 1L( 1 O (Curator)
5. Zoology	1R (Forest Antomology) 2L ( 1 O (Curator)
6. Mathematics	1L(to be utilized by Economics & Commerce Department)
7. Workshop	5 O (Supdt./Foremen 1, Jr. Foremen 2 & Mechanics 2)
<u>HUMANITIES DEPARTMENTS</u>	
8. Economics	1P 1L(Ecometrics Mathematics)
9. Commerce	1P 1L(Transport Economics)
10. Political Sc.	1R(Public Administration) 1L(Political Sociology)
11. English	1R 1L(Modern English Literature & Linguistics)
12. Hindi	1R (Linguistics) 1L
13. Persian	1L(Modern Persian)
14. Urdu	1R 1L
15. Russian Language	1L
16. Central Library	3-0 (Asstt. Librarian-1-- Jr. " " $\frac{2}{3}$ )

N.B. 1P = Professor, R=Reader, L=Lecturer and O for Others.  
ii) Payments will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of posts above, filled, from the date of appointment upto the end of 1978-79 wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

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Appendix 0 to Part II of the minutes  
of the University Grants Commission  
meeting held on 14th & 15th July,  
1975 (Item No. 25)

JAMMU UNIVERSITY

(Figures in lakhs)

Spill-over		3.35
Basic grant	(i) Books	3.00
	(ii) Equipment	5.00
<u>New Allocations</u>		
<u>Non-Recurring</u>		
	Books	9.00
	Equipment	4.25
	Other	2.00
	Buildings	12.00
		<u>38.60</u>

Recurring

Staff: 4 Professors, 11 Readers, 12 Lecturers and  
10 others

Jr. Fellowships ( Maximum 10 (Rs.400/-p.m.) at any given  
time during the Plan period and as  
per guidelines laid down by the  
Commission )

( Details attached in enclosures )

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Encl. to appendix 3

<u>JAMMU UNIVERSITY</u>		<u>Rs. in lakhs</u>	
<u>Departments</u>	<u>Books</u>	<u>Equipment</u>	<u>Others</u>
<u>Science Departments</u>			
1. Chemistry	0.25	1.40 *	
2. Physics	0.35 £	2.50 H	
3. Botany	-	1.85+	
4. Zoology	-	1.85+	
5. Mathematics	0.25	0.07 ££	
6. Geology	0.25	1.30£££	
7. Bio-Sciences	0.50	-	
<u>Humanities and Social-Scs. Departments</u>			
8. Hindi	0.25	-	
9. Commerce, Business Management & Secretarial Practice	0.25	0.08	
10. Education	0.10	-	
11. Political Sc.	0.25	-	
12. Economics	0.25	-	
13. Law	0.25	-	
14. English	0.25	-	
15. History	0.25	-	
16. Urdu	0.10	-	
17. Sanskrit	0.10	-	
18. Foreign Languages	0.10	-	
19. Central Library	8.25	0.20	
20. Fellowships for all Departments (10 fellowships)	12.00	9.25	-2.00-
			2.00

\* including differential Thermal Analysis  
£ including Rs.10,000/-for Job Oriented Courses in Applied Electronics  
H Rs.75,000/-for Job Oriented Courses in Applied Electronics  
+ including cost of Jeep & Trailer  
££ for calculating Machine  
£££ including cost of Mini Bus.

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Encl. to appendix 3

JAMMU UNIVERSITY

<u>Buildings</u>			<u>Rs. in lakhs</u>
<u>Sr. No.</u>	<u>Department</u>	<u>U.G.C. share</u>	<u>State Govt. share</u>
1.	Bio-Science Bldg.	3.00	
2.	Education	1.00	
3.	Law	2.50	
4.	Central Library	2.50	
5.	Students Home	1.50	
6.	Guest House	4.50	
	Total:	<u>12.00</u>	

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JAMMU UNIVERSITY ADDITIONAL STAFF  
POSITION APPROVED FOR THE DURATION  
OF THE VTH PLAN PERIOD-i.e. upto  
1978-79

Science Departments

Recurring

- 1. Chemistry 1 P (Organic & Physical Chemistry)  
1 L  
1 O (for instrumentation)
- 2. Physics 2 R (one for specialist in Phenomology &  
one for Electronics )  
2L (one for Job Oriental Courses and one for  
Applied Electronics )  
3 O (one workshop supdt. for all Sc. Deptts.)  
(one Sr. Technical Asstt.)  
(one Jr. Technical Asstt. for Job  
Oriented Courses in applied Electronics)
- 3. Botany 1R  
1L  
1 O (Photo Micrographer for all Bio-Sciences  
Deptts.)
- 4. Zoology 1R  
2L  
3 O (one Field Botanist, one Tech. Asstt. and  
one Curator )
- 5. Mathematics 1R  
2L
- 6. Geology 1L  
1 O (Curator)

Humanities Departments

- 7. Hindi 1R
- 8. Commerce, Business 1P  
Management & Secretarial  
Practice. 2R  
1L
- 9. Education 1P, 1R, 2L
- 10. Pol.Sc. 1R
- 11. Economics 1R ( to teach Econometrics)
- 12. Law 1P
- 13. Central Library 1 O (Asstt. Librarian)

N.B. P= Professor, R=Reader, L=Lecturer and O for Others.  
ii) Payments will be on the basis of actual expenditure per annum  
on the agreed sharing basis only in respect of posts above,  
filled, from the date of appointment upto the end of  
1978-79 wherever specialisations have been indicated against  
posts above no change can be made without prior approval of  
the Commission.



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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 14th & 15th July, 1975

Time: 10.00 A.M.

Place: UGC Office, New Delhi.

A G E N D A

- Item No. 1: To receive the minutes of the meeting of the Commission held on 2nd June, 1975.
- Item No. 2: (a) To approve the action taken on certain matters.  
(b) To receive the items of information.  
(c) To receive the statement of proposals which could not be accepted by the Commission.
- Item No. 3: To approve the statement of grants released after the last meeting of the Commission held on 2nd June, 1975.
- Item No. 4: To receive a statement of expenditure incurred by the University Grants Commission during 1975-76 upto 31st May, 1975.
- Item No. 5: To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 15.6.1975. P.1-2
- Item No. 6: To consider the reports of the UGC Visiting Committee to the Universities of Andhra, Osmania and Sri Venkateswara and P.G. Centres at Guntur, Warangal and Anantapur. P.3-10
- Item No. 7: To consider further the reports of the UGC Visiting Committee to the Universities of Cochin, Calicut and Kerala. P.11-19
- Item No. 8: To consider the reports of the UGC Visiting Committee to the Universities of Utkal, Sambalpur and Berhampur. P.20-30
- Item No. 9: To consider further the report of the Committee on Hamdard College of Pharmacy, Delhi University. P.31-51

P.T.O.

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- Item No.10: To consider the recommendation made by the Law Panel for equating LL.M. with the M.Phil. course for purposes of award of Scholarships. P.52-54
- Item No.11: To consider certain measures proposed by the Ministry of Education for the speedy disposal of unsold books produced by the various autonomous organisations functioning under its administrative control. P.55-58
- Item No.12: To consider further the proposal of the Government of India for making National Service for a specified period as a pre-condition for the award of a degree. P.59-71
- Item No.13: To consider a reference made by the Ministry of Education regarding the recommendations made by the evaluation committee on the National Cadet Corps appointed by it. P.72-82
- Item No.14: To consider a reference contained in the proceedings of the Vice-Chancellor's Conference of U.P. Universities held on 19th & 20th January, 1975 at Lucknow. P.83
- Item No.15: To consider further the question of providing assistance for development programmes to Teachers Training Colleges during the Fifth Plan period on the basis of the recommendations of Panel of Education. P.84-96
- Item No.16: To consider further the question of eligibility of colleges already brought within the purview of UGC Act to receive Commission's assistance under various programmes. P.97-110
- Item No.17: To consider further the question of recognition of Autonomous Colleges. P.111-121
- Item No.18: To consider the question of giving assistance to affiliated colleges for improvement to undergraduate facilities under 5 lakhs scheme during Fifth Plan Period. P.122
- Item No.19: To consider the question of providing grants to the Departments of Special Assistance for Fellowship awards beyond the Fifth Plan Period. P.123

P.T.O.

- Item No.20: To consider the question of providing financial assistance to full-time Research Scholars/Junior Research Fellows working in universities and colleges for visits abroad either in connection with the research work or for attending international conferences. P.124-128.
- Item No.21: To consider a note on the implementation of the UGC Scheme for the preparation of university level books by Indian Authors. P.129-162
- Item No.22: To consider the question of relaxing the condition of minimum enrolment in the case of colleges situated in backward and rural areas under the scheme of setting up of Book Banks in Colleges. 163-164.
- Item No.23: To consider proposal of the Roorkee University for enhancement of the value of stipend paid by the university to the students selected for training at Water Resources Development Training Centre. P.165
- Item No.24: To consider a proposal of the Aligarh Muslim University for continuation of the scheme of Personal Promotions of teachers in the Central Universities. P.166-175
- Item No.25: To consider the proposal of Pachaiyappa's College, Madras for assistance towards the construction of Second Non-Resident Students Centre which was undertaken without prior approval of the Commission in the matters. P.176-177
- Item No.26: To note the date and place for the next meeting of the Commission.
- Any other item.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 14th & 15th July, 1975  
Time : 10.00 A.M.  
Place: UGC Office, New Delhi.

A G E N D A

- Item No.27: To consider the report of the visiting committee to Rabindra Bharati University. P.178-181
- Item No.28: To consider the report of the visiting committee to Kalyani University. P.182-185
- Item No.29: To consider the report of the Committee appointed by the Commission to examine the proposal of the Kerala University for obtaining Computer facilities. P.186-192
- Item No.30: To consider the report of the Committee appointed by the Commission to examine the proposal of the University of Poona for the development of Computer facilities. P. 193-204
- Item No.31: To consider the basis of assistance for the development of postgraduate studies in the Humanities including Social Sciences and Sciences in the colleges during the Fifth Plan period. P.205-214
- Item No.32: To consider the proposal from the Delhi University for financial assistance for the reconstruction of Auditorium of the Lady Shri Ram College for Women, New Delhi. P.215-223
- Item No.33: To consider certain establishment matters of the University Grants Commission.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Minutes of the 169th meeting of the University Grants Commission held on 2nd June, 1975 at Bombay.

The following were present :

Prof. Satish Chandra	Vice-Chairman (in the Chair)
Professor R.S. Sharma	Member
Professor S. Gopal	"
Dr. Amarjit Singh	"
Professor B.M. Udgaonkar	"
Shri R.K. Chhabra	Secretary

Dr. Ajit Mazoomdar, Shri K.N. Channa; Prof. Rais Ahmed, Prof. M. Santappa, Shri KT Chandy and Prof. J.B. Chitambar could not attend.

Secretariat

Dr.D. Shankar Narayan      Additional Secretary

Item No. 1: To receive the minutes of the meeting of the Commission held on 12th May 1975.

The minutes of the 168th meeting of the Commission held on May, 12, 1975 were confirmed.

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

The Commission approved the action taken on items listed in Appendix I.

Arising out of item 2(a)(6), the Commission desired that an editorial board may be set up for the UGC journal on Higher Education.

During the discussions, the following points emerged :

(1) The Science Research Council may consider the question of promoting developmental activities, particularly with regard to the design and fabrication of scientific equipment required for use by universities. In this connection, it was noted that the Government of India (Planning Commission/DGTD/CSIR) had earlier appointed committees in this regard and their reports may be made available for consideration by the SRC so that a few major items which are essentially required could be identified and developmental activity promoted in that regard.

(2) As regards University Collaboration Programme with universities and other countries, it should be ensured that the collaboration is on an equal level of expertise and facilities and it should not lead to the Indian universities being mainly engaged in activities because of availability of large number of scientific manpower. In order to enable this, it would be essential to provide to such Indian university departments necessary sophisticated instruments, some of which may have to be imported. Persons going abroad under these programmes should not be treated as trainees but as collaborative research workers.

\*Not enclosed.

(3) Since the foreign exchange generally available to the universities has been so meagre in relation to its actual needs, the Government of India may be approached to earmark a proportion of the credits obtained by it from foreign sources for meeting the urgent equipment needs of the university system.

(4) The Commission desired that immediate steps be taken to further identify suitable departments which may be considered for participation in programmes of 'Centres of Advanced Study' and of 'Special Assistance to selected Departments'.

(5) The Commission felt that, as suggested earlier, expenditure on support for research in the Humanities and Social Sciences may be further augmented and necessary provision made for the purpose in the Revised Estimates for 1975-76. Provision may also be made for Support of Research in Engineering and Technology under Budget Head 'C'. It was further proposed that provision for group of items relating to creation of common facilities in the universities, e.g., computer facilities, central instrumental facilities etc. may be shown under Budget Head 'D' and not under Budget Head 'B' - "Grant to Central and State Universities for Science" as at present.

(6) The Commission noted that a total sum of Rs. 12 crores was likely to be earmarked for various student-welfare programmes during the V Plan period. The amounts proposed to be spent for different activities, including provision for games, sports and extra-curricular activities, may be worked out and brought up before the Commission at a later meeting. In this connection, it was desired that since a considerable amount of money is being paid every year for student-aid-fund, it may be necessary to review the scheme.

(b) To receive the items of information.

(c) To receive the statement of proposals which could not be accepted by the Commission.

This was noted.

Item No. 3: To approve the statement of grants released after the last meeting of the Commission held on 12th May 1975.

The Commission approved the grants released after the meeting of the Commission held on May 12, 1975 (Appendix II)\*.

Item No. 4: To receive a statement of expenditure incurred by the University Grants Commission during 1975-76 upto 30th April 1975.

This was noted.

\* Not enclosed.

Item No. 5: To receive the recommendations of the Standing Committee on New Universities/University Centres held on the 15th May 1975.

The Commission considered the recommendations of the Standing Committee on New Universities and University Centres made in their meeting held on May 15, 1975 and decided as follows :

(a) New Universities in Andhra Pradesh.

The Commission agreed that only one unitary university may be established by the Andhra Pradesh Government at Warrangal on the definite understanding that the Regional Engineering College located at Warrangal would become an integral part of the new university alongwith the existing postgraduate centre of the Osmania University. If this is accepted by the State Government, the State Government would also have to comply with the rules provided under Section 12A of the UGC Act before the proposed university could be declared fit to receive assistance from the Central sources. Keeping in view the present stage of development of the postgraduate centre at Guntur, the Commission could not accept the proposal to convert the Centre to a Unitary University. The Commission further reiterated that the Andhra University and the State Government may be requested to develop the existing postgraduate centre at Guntur in a manner which will strengthen its autonomy.

(b) Establishment of Military University/Academy in Maharashtra

The Commission agreed with the recommendation of the Standing Committee that it was not appropriate for the Maharashtra Government to set up a Military University/Academy in Maharashtra.

(c) Postgraduate Centre at Arrah

The Commission accepted the recommendation of the Standing Committee that the Magadh University be advised to re-formulate its proposal in conformity with the guidelines issued by the Commission for establishment of a university post-graduate centre.

(d) Postgraduate Centre at Nanded - Marathwada University

The Commission agreed that the proposal may be examined in the light of the report of the Fifth Plan visiting committee which visited Marathwada University.

(e) Establishment of Jawaharlal Nehru Technological University

The Commission reiterated its earlier views regarding the establishment of technological universities and in view of this could not accept the proposal of the Andhra Pradesh Government to declare the Jawaharlal Nehru Technological University to be fit to receive grants from the Central sources. In this connection,

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It was noted that under (a) above of this item it had been suggested that Regional Engineering College, Warrangal should become an integral part of the proposed Unitary University to be set up at Warrangal by the Andhra Pradesh Government.

(f) Establishment of the postgraduate centres in Sri Venkateswara University

The Commission considered the letter received in this connection from the Vice-Chancellor, Sri Venkateswara University and the recommendation made by the Standing Committee. It was decided that a Working Group may be constituted to examine the question of setting up of postgraduate centres in universities and the development of postgraduate colleges, keeping in view the resources available for development of postgraduate studies outside the University Departments during the Fifth Plan period.

Item No. 6: To receive the recommendations of the meeting of the working group constituted to consider the Budget Estimates of the Commission for 1975-76, held on the 11th May 1975.

The Commission noted the recommendations of the Planning Group. It was pointed out that although during 1974-75 it had become necessary to re-appropriate, purely as a temporary measure, for ways and means purposes, a sum of Rs. 1.03 crores from Plan to Non-Plan expenditure, implementation of none of the special programmes or developmental activities had been affected adversely. It was understood from the Government of India that though the final allocation for engineering and technology and for medical education, as far as it related to Central Universities, had not been determined, the Government of India while agreeing to the Budget Estimates for 1975-76 had included the provision for the development of engineering and technology and medical education as originally envisaged by the Commission in the Budget Estimates of Rs. 38.13 crores. The Commission desired that it may be impressed upon the Government of India that the engineering and technological institutions directly maintained by the universities and receiving support through the UGC should be given a proportionate share in the overall allocation for engineering and technological education, so that the developmental programmes of such departments do not suffer for want of proper support.

The Commission noted that there had been an overall increase in the programmes and activities undertaken by the UGC in recent years and while placing on record its appreciation of the hard work already put in by the existing staff, emphasised the need for strengthening of the secretariat immediately so that the various special programmes are taken up for speedy implementation. (It was noted that the matter would be considered by the Establishment Committee in the near future.)

Item No. 7: To consider a note on the recommendations made by the Committee appointed to review the scheme of Financial Assistance to the universities for publication of learned works including doctoral thesis.

The Commission generally accepted the recommendations made by the Committee which reviewed the scheme of financial assistance to universities for their publication programmes. The Commission agreed that assistance for this purpose may be provided to all the universities as during the Fourth Plan period. Grants to be



provided for the purpose to each university may be worked out with the help of a Committee and the matter placed before the Commission. The other aspects of promoting the publication activities, as accepted by the Commission are indicated in Appendix III. A Committee may be appointed to identify universities which may be specially selected for purposes of providing facilities for publications in certain disciplines, on an inter-university basis, so as to augment the facilities available for the purpose within each university.

Item No. 8 To consider the question of payment of remuneration to teachers for invigilation/examination work of private students and for examination work of students of institutions other than those in which the teachers are serving.

The consideration of this item was postponed. It was desired that necessary information with regard to the number of students appearing as private candidates and through correspondence courses may also be obtained.

Item No. 9 To consider the question of providing financial assistance to full-time research scholars/Junior Research Fellows working in Universities and Colleges for visits abroad either in connection with the research work or for attending international conferences.

This was postponed.

Item No. 10: To consider the proposal of the Banaras Hindu University for creation of post of Director for Bharat Kala Bhavan during the 5th Plan period.

The Commission desired that the report of the visiting committee which would assess the Fifth Plan proposals of the Banaras Hindu University may be awaited. In this connection, the Commission desired that the visiting committee may be requested to look into the question of collaboration between the Departments of History, Ancient Indian History & Culture and the Department of Fine Arts.

Item No. 11: To consider the proposal of the Birla Institute of Technology and Science, Pilani, for starting a postgraduate programme on Science and Society, Policy Planning and Management of Science and Technology.

The Commission accepted the recommendation of the committee appointed to examine the proposal of the Birla Institute of Technology and Science, Pilani for starting a postgraduate programme on Science and Society, Policy, Planning and Management of Science and Technology and agreed to provide the following financial assistance during the Fifth Plan period, on the condition that this would be the first charge on the Fifth Plan allocations to be made to the Institute :

Recurring

Professor	1
Asstt. Professors	2
Scholarships for intake of 10 students @ Rs. 250/- p.m.	
Research fellows - 2 @ Rs. 600/- p.m.	

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Non-Recurring

Books & Journals	Rs. 50,000
TA/DA for visiting experts	Rs. 75,000
Seminars	<u>Rs. 20,000</u>
Total (NR)	<u>Rs. 1,45,000</u>

The Commission further desired that the BITS, Pilani should give an assurance that it would take over the recurring expenditure involved as committed expenditure at the end of the V Plan period.

In this connection, the Commission noted that no maintenance grant was being paid to the BITS, Pilani either by the Government of Rajasthan or by the Government of India, consequent upon its being given the status of a 'Deemed University' under Section 3 of the UGC Act. The Commission desired that information may be obtained from BITS Pilani as to the source from which it would meet the committed expenditure in respect of schemes sanctioned from Plan to Plan by the UGC and also its normal maintenance expenditure.

Item No. 12: To consider the report of the Committee appointed by the University Grants Commission on matters relating to (1) Strength of Physical Director and (2) Reorganisation of courses which do not attract sufficient number of students in colleges of Delhi University.

The Commission desired that the views of the Delhi University may be obtained on the recommendations made by the Committee appointed by it on matters relating to strength of Physical Directors and Reorganisation of courses which do not attract sufficient number of students in the colleges of the university. The Commission further desired that the Delhi University be advised to suggest to the colleges not to appoint staff against the post likely to fall vacant in courses which do not attract sufficient number of students till the matter has been reviewed by the university.

Item No. 13: To consider the recommendations made by the Committee appointed to work out the mechanics for evaluation of the work of Junior Research Fellows.

The Commission accepted the procedure recommended by the Committee for purposes of evaluation of the work of Junior Research Fellows who were to receive an enhanced fellowship amount of Rs. 500/- per month at the end of two years of their work (Appendix IV).

Item No. 14: To receive the recommendations made by the Committee of Vice-Chancellors of Central Universities at its meeting held on 23-5-1975 regarding reservation of seats to various courses of study and reservation of posts of various category in the Central Universities to persons belonging to Scheduled Castes/ Scheduled Tribes Communities.

The Commission considered the recommendations of the Committee of Vice-Chancellors of Central Universities on the question of reservation of seats etc.

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for scheduled caste and scheduled tribe candidates for admission to courses and appointments. The Commission agreed that :

- (a) The Central Universities be requested to provide reservations for admission to different courses at undergraduate and post-graduate level for scheduled caste and scheduled tribe students, as has been indicated by the Government of India.
- (b) Provision may be made for remedial courses in the universities for scheduled caste and scheduled tribe students concurrently with their courses of study; and
- (c) Reservation may be provided for recruitment to non-academic posts for scheduled caste and scheduled tribe candidates in accordance with instructions issued by the Government of India from time to time.

2. In view of the special position of Aligarh Muslim University, it was noted that it may not be feasible for that university to enforce the above provisions of reservations to the extent indicated by the Government of India.

3. The Commission agreed that a certain number of non-transferable fellowships may be instituted in the universities exclusively for scheduled caste/scheduled tribe students with the provision to select the best students among those sections and having the minimum qualifications and also by making provision for special training and guidance. It was noted that such of the fellowships which remain unutilised would not be available for award to other students.

4. Consideration of the recommendation regarding reservation for scheduled caste and scheduled tribe candidates in the matter of appointments to teaching posts and the views on provision in Kerala University Act for reservations for different communities, was postponed.

Item No. 15: To consider further the question of institution of post of Readers in colleges.

The Commission accepted the guidelines suggested by the Working Group for institution of readership in colleges, as given in Appendix V.

Item No. 16 To note the date and place for the next meeting of the Commission.

It was noted that the next meeting of the Commission will be held on 14th & 15th July 1975 at New Delhi.

Item No. 17 To consider the proposal of the Bombay University for the establishment of a Centre for studies in Regional Planning.

The Commission desired that the proposal from the Bombay University may be examined with the help of a Committee.

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Item No. 18. To consider the proposal for experimental introduction of English Comprehensive Courses for University students.

The Commission accepted the recommendation of the Standing Committee on Library Science for introduction of English Comprehensive Course for university students. While selecting teachers for such courses, special attention should be given to nominations received from colleges participating in COSIP/COHSIP programmes.

Item No. 19: To further consider a reference received from the Government of Rajasthan regarding inclusion of nominee of the University Grants Commission in the various selection committees set up by the universities established in Rajasthan by the Act of State Legislature.

In view of the special circumstances, the Commission agreed, as an interim measure for the current academic year, to nominate a representative of the UGC to serve on the Committee to draw a panel of names required for purposes of constitution of selection committees.

Item No. 20: To consider the recommendations of the Committee appointed by the University Grants Commission to examine the proposal of Banaras Hindu University for financial assistance amounting to Rs. 1,20,000/- for the publication of Historical Grammar of Hindi Language.

The Commission accepted the recommendations of the committee regarding the publication of Historical Grammar of Hindi Language and desired that if the Banaras Hindu University accepted the recommendation of the committee, it may indicate a firm estimate for the publication of the three volumes.

Item No. 21: To consider the minutes of the meeting of the Standing Committee on Continuing Education held on 21st April 1975 in New Delhi

The Commission noted the recommendation of the Standing Committee on Continuing Education and agreed to the organisation of two zonal conferences on Continuing Education. The Commission, however, desired that sufficient care be taken in the preparation of the key note and other working papers for the conferences.

Item No. 22: To consider the proposal of the Calicut University for the creation of a post of a Development Officer.

The Commission accepted the proposal of the Calicut University for the creation of a post of Development Officer in the scale of a Deputy Registrar. The Commission, however, desired that the designation may be kept as Development Officer and not as Deputy Registrar (Planning and Development).

Item No. 23: To consider additional programmes for students' welfare and amenities in the Vth Plan.

The consideration of this item was postponed. In this connection the Commission desired that while bringing up this item before the Commission again, the distribution of the total allocation available for student welfare programmes may be worked out.

Item No. 24: To consider a note on the implementation of the UGC scheme for the preparation of University Level books by Indian authors.

This was postponed.

Item No. 25: To consider certain establishment matters of the University Grants Commission:

(i) Grant of extension of service to Shri K.N. Haldar, Officiating Assistant Secretary on attaining the age of superannuation.

(ii) Recommendations made by the Committee appointed to work out the details for setting up "Documentation-cum-Evaluation and Planning Unit" in the University Grants Commission.

(i) - The Commission desired that a Committee may be appointed to determine the manner and basis on which extensions may be given in special cases to the employees of the UGC beyond the age of superannuation.

(ii) Consideration of the recommendations made by the Committee appointed to work out the details for setting up a "Documentation-cum-Evaluation and Planning Unit" in the UGC was postponed.

Item No. 26: To consider the recommendations made by the Panels in the Humanities and Social Sciences about payment of D.A. for field work undertaken by the teachers selected under the scheme of financial assistance for short-term projects.

The Commission desired that this may be considered in the first instance, by a Committee of the Convenors of Panels.

Item No. 27: To consider the pattern of the examination system in the light of the decision of the Commission not to pay remuneration to the teachers for students within the university.

Consideration of this item was postponed. (This item may be linked with item No. 8).

Item No. 28: To consider the procedure to be followed for evaluating the proposals received from the universities for support from U.S. PL-480 rupee funds.

The Commission was of the view that the proposals received for support from 'U.S. Owned Rupee funds' may be processed in the same manner

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as other research proposals received from the universities for support from the UGC funds. The Commission desired that the National Screening Committee may be requested to see that the pattern of funding of proposals accepted for support under this scheme should generally be the same as in the case of proposals funded by the UGC and other national agencies.

Addl. Item No. 1: Professors of Eminence,

The Commission accepted the recommendations of the Working Group with regard to the procedure to be followed for the purpose of consideration of proposals for appointment of Professors of Eminence (Appendix VI).

Addl. Item No. 2: Supernumerary Positions:

The Commission further accepted the recommendations of the Working Group with regard to the creation of supernumerary posts of Professors/Readers in the Universities in certain special cases (Appendix VII).

R.K. Chhabra  
Secretary

Satish Chandra  
Vice-Chairman

The main recommendations of the Committee are as follows:

- i) The scheme should be continued during the Fifth plan for the universities and for colleges. Assistance may be given to all universities for publication of learned works etc.
- ii) A learned research work to be assisted under the scheme should be one that breaks new ground and is useful as reference material for honours and post-graduate studies. The manuscripts in respect of works brought out by college teachers may be sent to UGC for assessment by two experts in the particular field. While the college part of the scheme may be done centrally in the UGC, the university part may be entrusted to each university as at present.
- iii) Theses accepted for doctoral degree may be considered for assistance for publication under the scheme only within a period of ten years after its submission. If the period of submission exceeds ten years then it should be got adjudged by the experts in the field by the university before it is considered for assistance.
- iv) It was felt that a specific ratio of assistance be fixed for assistance for learned research works and doctoral theses. The allocation made to a university under the scheme be utilised by the universities normally on the basis of 2/3rd for doctoral theses and 1/3rd for other learned research works.
- v) Repetitive publication should not be considered under the scheme for assistance. Assistance would be available once only for the initial publication.
- vi) The university may either publish the works under its supervision and control or get these published through reputed publishers. Payment towards the cost of a publication should not be made to the author, but directly to the publisher by the university. The author could be consulted regarding the publisher, if it is not done through university press.
- vii) With a view to ensuring a very high academic standard the universities should take utmost care in effecting proper selection of learned research works for publication. The university should also avail of the services of professional people for editing, referencing, spacing etc., of the manuscripts from the point of view of quality and presentation. It was also decided that in case the amount provided as subsidy for a particular publication is less than Rs. 3000/- then no reference to experts may be necessary for its assessment. However, in case the amount of subsidy exceeded Rs. 3000/- the manuscript may be got assessed by two experts (besides the examiner) in that particular field.
- viii) Where assistance to a publication is substantial the university should undertake it as its publication and a major part of the money realised through sales (after making provision of royalty to author, commission to retailers etc)

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should be credited to this fund for publications so that it can support more books to be published. The money obtained through sales of books published with UGC support should not be used by the universities as a general source of revenue.

ix) In addition to the assistance available to all universities for support of their publications, certain universities would be selected to set the pace for the production of high quality research works. Such universities would be identified on regional basis or on the basis of specialisation in certain disciplines / areas of study. These universities may be encouraged to undertake publication of the learned works of scholars/teachers from other universities in the region/ discipline/area, with the help of additional assistance to be given by UGC (over and above their normal allocation) for publishing work from other universities.

x) A special permanent fund may be established at some selected universities for the publication of research work. The Commission may make a lump-sum grant of Rs. one lakh for the plan period and the university may add Rs. 50,000 to this fund. Production cost of books should be met out of this fund and the sale proceeds should be credited to it. With this revolving fund, the university can continue to publish books without any further grant. A small committee consisting of 2-3 members may be appointed to work out details regarding creation of regional centres to augment facilities for purposes of selective publication.

xi) It was decided that the grants for the Fifth Plan period under the scheme may be allocated to the universities on the basis of their performance regarding utilization of grants allocated to them during the Fourth Plan period. The sub-committee would also decide on the basis of the past performance of a university, the allocation which may be made to it under the scheme during the 5th plan period.

xii) There should be proper coordination among the agencies providing financial assistance for similar purposes, i.e., ICHR, ICSSR, NET, Indian Institute of Advanced Study, Simla. To avoid duplication of assistance, it was decided that the universities should provide a column in the proforma inviting proposals indicating whether a particular scholar has approached any other organisation for financial assistance for the same publication and if so, with what results? The efficient distribution system and sale of publications was vital for the scheme. It was decided that the sub-committee would look into this matter also and recommend effective ways and means of ensuring the desired results.

xiii) The committee commended the idea of providing financial assistance for quality journals which are published by the universities and which have



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established reputation. It was felt that unless assistance was provided for quality journals, journals of high academic quality could not be expected from the universities. It was decided that the subject panels set up by the Commission in different disciplines may be requested to suggest a list of such journals which could be supported by UGC.

xiv) The Committee agreed that the publication of catalogues, critical editions of rare manuscripts and research/reference manuals costing more than Rs. 20,000 may be considered on merits outside the general scheme of the UGC on all India basis after the work has been examined by the Commission with the help of experts.

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Appendix IV to (Item No.13) to the minutes of the UGC meeting held on 2nd June, 1975.

The mechanics for evaluation of the work of Junior Research Fellows for purpose of enhancement of fellowship amount from Rs. 400 p.m. to Rs.500 p.m. after two years :

- 1 The increased value of the Junior Research fellowship from Rs.400 p.m. to Rs. 500 p.m. would be effective from 1st July 1975.
- 2 The fellow who has worked for not less than two years' under the UGC Junior Research Fellowships, at least for one year of which he has drawn a fellowship at Rs. 400/- p.m. w.e.f. 1st July 1974 should be eligible for the enhanced fellowship at Rs. 500 p.m. after evaluation of his work.
- 3 All Junior fellowships under different UGC schemes (e.g. fellowships allocated to universities, fellowships awarded directly by the UGC, fellowships allocated to the Centres of Advanced Study/departments of Special Assistance and fellowships allocated to central universities under non-plan etc) should have common mechanics of evaluation.
4. A Junior Research Fellow who has completed M.Phil in the course of his two years' of Junior research fellowships and has obtained M.Phil with the requisite grade and has been registered for Ph.D would be eligible automatically to enhanced value of Rs. 500 p.m. without being subjected to any further evaluation.
- 5 A Junior Research Fellow who has completed two years' fellowship at Rs. 300/- and Rs. 400/- p.m. may be asked to submit a comprehensive progress report along with a review of the work already done in the area by other workers with the necessary bibliography indicating the problems faced by him and his line of thinking to achieve his objective, if possible supported partly in the form of published work. The progress report along with the confidential assessment by his supervisor and the Head of the Department would be referred to the concerned subject panels of the UGC to recommend :
  - (a) Whether in the light of the work already done by the candidate, he may be given the increased amount of the fellowship at Rs. 500/- or
  - (b) may be allowed to continue on the existing basis (Rs.400 p.m.) for another year when his progress report could again be evaluated by the Panel; or
  - (c) the candidate's work may be assessed after interview if necessary by a sub-committee(s) constituted for the purpose by the Panel; or
  - (d) the fellowship may be discontinued because of the unsatisfactory report.

Institution of Readerships in colleges

The Commission while considering the Sen Committee Report on conditions of service of teachers in its meeting held on 2nd and 3rd June 1974 amongst others decided that as recommended by the Sen Committee, Readerships/Professorships be also created in selected undergraduate and postgraduate colleges and preferably in autonomous colleges. Further the Commission was of the view that the qualifications and the mode of recruitment to these posts should be the same as applicable for corresponding posts in the university departments.

It is proposed that as a first step, the Commission may assist the colleges to institute posts of Readers during the Fifth Plan period on the condition that after the Commission's assistance ceases on 1.4.1979, the Colleges/State Government would take over this as committed expenditure.

The Committee noted that the Colleges could use for purposes of creation of posts of Readers the general provisions already available under (a) UGC scheme of assistance to colleges for improvement of undergraduate education, as indicated in the guidelines for development of undergraduate colleges within Rs. 5 lakhs; (b) UGC scheme of assistance to postgraduate departments in affiliated colleges (norms and ceilings to be notified); and (c) the scheme of assistance to autonomous colleges.

In addition to the above provisions, colleges which satisfy the criteria given below may seek assistance from the UGC for creation of posts of Readers in some subjects with a view to attract and retain highly qualified teachers and thus improve their standards of instruction. Creation of such posts would not be possible for purposes of fulfilling conditions of affiliation for starting postgraduate courses.

- (a) The College should be permanently affiliated to the university concerned.
- (b) It should not have less than 800 students on its rolls if providing a three year degree course or 500 students for a two year degree course at undergraduate level, excluding postgraduate students, if any, and with a minimum faculty of 40 permanent teachers excluding demonstrators, tutors, etc.
- (c) The colleges and the Departments seeking assistance to create posts of Readers should have adequate facilities in the shape of library, laboratory equipment and faculty. The commitment of the college for the development of the department would particularly be seen from its overall recruitment policy, eg. whether it is generally appointing only people with a consistently good academic record and Ph.Ds as far as possible.
- (d) A Department of a college seeking assistance to create positions of Readers should have already on its staff at least six permanent and qualified teachers and a viable enrolment in this subject. It should also have a viable research programme or an innovative educational programme.

- (e) Generally one such post can be requested for a department and UGC assistance for such posts will be on 100% basis. In special cases, the Commission may consider providing additional Readerships in a Department on the merits of each case.
- (f) The selection of Readers so approved, would be on an open selection basis and the mode of recruitment should be on the same basis as for posts of Readers in the university concerned. The selection would be made centrally for all colleges affiliated to that particular university by the university authorities by properly constituted selection committees. The Selection Committee will be as constituted for the appointment to be made by the university. It may, however, provide for, wherever necessary (a) a nominee of the Vice-Chancellor to preside and (b) the Principal of the college concerned to be associated with it.
- (g) If any of such Reader's posts created under this scheme falls vacant subsequently, the vacancy is also to be filled through the same procedure of selection and by the Selection Committee as indicated above.
- (h) The assistance from the UGC for such posts of Readers, would be available on a 100% basis for a period of five years from the date of appointment of the Reader, subject to the condition that the expenditure on effectively maintaining such Readers' posts would be taken over the college/State Government at the end of the period of UGC assistance. It is generally expected that appointments to such posts of Readers would be made within a period of six months from the date sanction is given by the UGC for the creation of such a post. Individual universities may specify a date by which it could receive proposals from the Colleges seeking assistance for creation of posts of Readers under this scheme and forward them also to the Commission by a specified date each year.

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Professors of Eminence

- A. i) A person selected as a professor of eminence will draw a salary of Rs. 3,000/- per month, but will not use the word 'professor of eminence' as a title or as designation.
- ii) The total number of professors of eminence in the universities at any given time may not exceed 100 during the Fifth Plan period. This may be spread suitably over various disciplines or inter-disciplinary studies.
- iii) The selection of a professor as a professor of eminence is basically a recognition of the meritorious contribution made by him to knowledge or to its promotion. It is expected that the selectors will demand the most exacting standards in making their choice. Self nomination and personal application for selection would, therefore, not be desirable.
- iv) Universities may propose names of persons for being selected as professors of eminence only when they have satisfied themselves fully that the professor concerned has reached a very high level of academic distinction and is capable of fruitful work himself as well as of guiding and inspiring others.
- B. i) Proposals will be invited by the UGC from time to time. Vice-Chancellors will be requested to make proposals in consultation with either the Dean of Faculty/School concerned in the university or with any professor of the subject concerned serving in that or any other university.
- ii) Only professors drawing the salary of at least Rs. 2,000/- per month in the revised scale of Rs. 1500-2500 (or in case they are in different scale they have been university professors for not less than seven years) will be eligible for being proposed for selection.
- iii) In addition, the UGC may also invite suggestions in this regard from outstanding professors, reputed scholars and scientists.
- C. When a proposal is made under 'B', the Commission will obtain from the universities or from the sponsoring individuals, properly documented information about the academic achievement of the professor concerned, including research/scientific work and contributions including published work, inventions, discoveries, reviews, monographs, books and such other materials giving necessary evidence of original work done either individually or in collaboration with a team. A brief

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note may also be obtained from the professor concerned about what he considers to be his main contribution to knowledge. The professor may also be requested to furnish the necessary references about his published work.

- D. 1) The Commission will constitute the following sub-committees to undertake a preliminary evaluation of the work done by the professors in the concerned areas :
- (a) Humanities and Social Sciences
  - (b) Physical, Natural and Earth Sciences
  - (c) Agricultural Sciences, Engineering & Technology, Medical Sciences.
- ii) After the preliminary evaluation, the sub-committee may consult panels of referees before recommending suitable names to the Commission for consideration. The sub-committee shall, inter alia, point out the importance and the significance of the work of professor whose name is recommended.
- iii) The evaluation reports and recommendations of the sub-committees will be examined by a committee consisting of five members of the Commission with power to co-opt experts representing different disciplines to make final recommendations to the Commission.
- iv) Care will be taken that the names of persons suggested and the evaluation reports on the work of professors whose names are suggested are treated as personal and confidential. Canvassing by or on behalf of a professor will not be looked upon with favour by the Commission.
- E. 1) Where a proposal made by a university in respect of a professor is accepted by the Commission, the University Executive Council may appoint such person as a professor of eminence. In that case, the Commission will reimburse the university the difference in salary over and above the salary drawn by him at the time of selection and Rs. 3,000/- p.m. This difference will be paid by the Commission to the university on a recurring basis until the time of superannuation of the person concerned and will not be subject to fluctuation as a result of the increments earned by the professor.

However, the terminal benefits resulting from the increase in the salary of the professor concerned will be the responsibility of the university.

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- ii) Universities participating in this scheme will be requested to make a provision, permitting such professors to hold part-time appointment in another University/Institute of Higher Learning.
- iii) If a university desires to invite a professor of eminence working in another university to join it on grounds such as better facilities for research/teaching etc. the Commission may agree in such case to meet the entire salary payable to the professor concerned.
- iv) If a university desires to invite as professor of eminence, an outstanding person working in an institution other than a university in India or in a university or institutions in a foreign country (provided he is an Indian national), the UGC may assist such universities also by providing funds to meet the difference in salary over and above the basic salary of Rs. 2,000/- and allowances normally admissible and which the university itself should agree to pay.

Universities agreeing to participate in the scheme are requested to amend suitably their Statutes/Ordinances preferably in consultation with the Commission.

**Creation of supernumerary positions of Professors/  
Readers in special cases in the Universities.**

Distinguished members of the academic community from universities, viz., Professors/Readers are from time to time invited to accept for specified period positions of national importance, vice-chancellorship, academic, research, administration or similar other assignments in or outside the country. In such cases, universities find it difficult to permit such Professor/Reader to retain lien on his post beyond a limited period as prescribed in the rules of the universities. On the other hand, the actual period of assignment may exceed the period of lien. In order to enable the services of such persons to be utilized and to enable them to return to their positions in the universities on the termination of their assignments, it would be desirable to create in such cases supernumerary positions of Professors/Readers. It would be open for the university concerned or any other university which desires to have the services of such an individual to approach the Commission for provision of a supernumerary position. If the same university where a teacher has been serving were to create a supernumerary post, the Professor/Reader would be entitled to earn increments in the scale during the period of his assignment. If any other university desires to have his services against the supernumerary post, the salary may be fixed at any stage in the scale with the approval of the Commission.

The university may send specific proposals for consideration of the Commission and necessary assistance indicating detailed information and the normal period of lien in each such case. The assistance would be for the duration the person draws his salary from the university, but not beyond the age of superannuation, or 60 years, whichever is earlier.

For purposes of retirement benefits, the period of appointment in a supernumerary post with or without salary would be counted as an approved service. The incumbents of the posts would also be entitled to contribute towards Provident Fund according to the rules of the university.

The total number of such positions of supernumerary posts which would be assisted by the UGC at any given time could be fixed for 25 posts of Professors/Readers in all universities and for all subjects.



Confidential.

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated : 14th & 15th July, 75

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

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- 1. Kerala University-Introduction of three year degree Course.

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The Ministry of Education had appointed an estimates Committee under the Chairmanship of Dr. C.D. Deshmukh to work out the estimates for the introduction of Three Year Degree Course in Indian universities. This Committee recommended that the Three Year Degree Course should be introduced in as many universities as possible during the 2nd Five Year Plan period. In order to improve the quality of collegiate education in the country and to provide an opportunity to revise the syllabus, introduce general education courses, reduce overcrowding in colleges, improve the student staff ratio and strengthen laboratories and libraries. The Commission at its meeting held on 14th/15th April, 1958 decided to undertake responsibility for expenditure involved in the introduction of three year degree course in the colleges. In pursuance of the above mentioned decision of the Commission, the Commission sanctioned, inter-alia, grants to the Kerala University for the introduction of the three year degree course in the colleges. One of the conditions laid down by the Commission in respect of the sanction of the above grants to the colleges was that "in case of colleges with more than 1000 students on their roll the maximum number of students should be brought down to 800-1000 by regulated admission over a period of 3 or 4 years. This will be exclusive of postgraduate and research students, if any, but inclusive of pre-university students for the present". St. Mary's college, Trichur was one of the colleges for which the Commission sanctioned grants to the Kerala University. The university of Kerala informed the Commission that in the report on the inspection of accounts of St. Mary's College, Trichur for the period 1956-62, the Government Auditor has objected that according to condition 2(C) of the grant-in-aid scheme in the case of colleges with more than 1000 students on their rolls, the maximum number of students should be brought down below 1000 by regulated admission over a 3 or 4 years period but the above college had an enrolment of 1077 in the year 1962-63 and as such, the college has not fulfilled the condition laid down by the Commission.

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The University has further informed that out of the colleges for which the Commission sanctioned grants for the introduction of three year degree course, 16 colleges had an enrolment of more than 1000 during the period 1958-64 as given below:

<u>S.No.</u>	<u>Name of the College.</u>	<u>Strength of Students 1962-63.</u>
1.	C.M.S. College, Kottayam	1485
2.	Catholicate College, Pathanamthitta.	1151
3.	F.M.N. College, Quilon.	1514
4.	M.G.College, Trivandrum	1469
5.	Mar Ivanios College, Trivandrum.	1388
6.	Mar Thomas College, Thiruvalla.	1159
7.	N.S.S. Hindu College, Changanacherry.	1500
8.	N.S.S. College, Pandalam,	1399
9.	S.B. College, Changanacherry.	1376
10.	St. Mary's College, Trichur.	1077
11.	St. Thomas College, Palai.	1389
12.	St. Thomas College, Trichur.	1257
13.	S.D. College, Alleppey.	1245
14.	Sacred Heart College, Thevara.	1390
15.	Sree Narayana College, Quilon.	1733
16.	Sree Narayana College for Women, Quilon.	1031

The University has informed UGC that the above colleges could not satisfy the above condition as there was heavy rush of students for admission and has requested that the Commission may waive the condition regarding the bringing down of enrolment below 1000 in respect of the above colleges. In view of the fact that the optimum enrolment range of 800-1000 envisaged in 1958-59 at the time of introduction of the three year degree course is no longer valid in a dynamic situation, the Commission has waived (vide orders dt. 7.5.1975) the condition in regard to the enrolment in the colleges and the university has been informed accordingly.

2. Proposal of Aligarh Muslim University for the construction of Sanitary Block for Sir Syed Hall under Students Amenities Programme.

The University Grants Commission at its meeting held on 1st December, 1971 accepted the recommendations of the Committee appointed to look into the Amenities for the Students at the Aligarh Muslim University and desired that the University be requested to indicate the phased programme for the implementation of the recommendations of the Committee vide Item No.51.

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The estimated cost of the main recommendations of the Committee amounted to Rs.45.25 lakhs.

The Aligarh Muslim University sent proposals at an estimated cost of Rs.21.25 lakhs which inter-alia included a provision of Rs.5 lakhs for construction of separate Sanitary Blocks for the Sir Syed Hall for inclusion in the first phase of the Students Amenities Programme against the total recommendation of Rs.45.25 lakhs. These schemes were considered by the Commission at its meeting held on 5th April, 1972 (Item No.76). The Commission desired that these proposals may be re-examined with a view to utilising the available funds on such items only as were of high priority and utility. The Aligarh Muslim University was accordingly informed that the proposals of the university amounting to Rs.21.25 lakhs were under consideration of the Commission, the University may not take action to implement the schemes until these have been approved by the Commission.

The Aligarh Muslim University had subsequently approached the Commission for approval of certain schemes as of high priority schemes (such as purchase of books, games, furniture and stainless steel plates and cups etc) amounting to Rs. 9,20,000/-. The Commission accepted the proposals of the University for implementation.

The University has now requested the Commission for the approval of the following two projects which were included by the University in its first phase programme i.e. within Rs. 21.25 lakhs :-

1.	Sanitary Block for S.S.Hall	Rs.5,00,000/-
2.	Utility corners/Stores.	-Rs.5,00,000/-
		<hr/>
		Rs.10,00,000/-

It has now been agreed vide orders dt.10.6.1975. to the implementation of the proposal of the Aligarh Muslim University for the construction of Sanitary Block for Sir Syed Hall as the University requires to implement this project immediately.

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3. Calcutta University-Purchase and installation of an Electron Microscope for the Department of Pure Physics.

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The Commission during the Fourth Plan accepted a proposal of Calcutta University for the purchase and installation of an Electron Microscope for the Department of Pure Physics and also provided an assistance of Rs.2,60,000/- against the total estimated cost of Rs.4,60,000/- for this project.

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The remaining amount of Rs.2 lakhs was provided by the State Government. Subsequently, the University informed the Commission that due to rise in prices, the cost of the equipment had gone up and therefore, requested the Commission to approve an additional provision of Rs.1,50,000/- for the purpose. The proposal of the Calcutta University for an additional grant of Rs. 75,000/- (being 50% of the additional expenditure of Rs.1,50,000/-) for the purchase and installation of an Electron Microscope for the Department of Pure Physics has been accepted (vide orders dt. Mar. 75) subject to the condition that the grant would be the first charge on the 5th Plan allocation of the University, and that an equal amount of Rs.75,000/- would be provided by the University/State Government. The Calcutta University has been informed accordingly.

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4. Burdwan University-Assistance for the Purchase of Living Room Furniture for the 5th Men's Hostel.

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During the Fourth Plan the Commission accepted the proposal of Burdwan University for the construction of 5th Men's Hostel for 98 boarders at an estimated cost of Rs. 3,10,000/-. The building has since been completed and the university has requested the State P.W.D. to prepare the completion documents. In January, 1975 the Burdwan University approached the Commission for assistance for the purchase of living room furniture for the above hostel.

Since the hostel building could not be put to use without living room furniture, the proposal of Burdwan University for the purchase of living room furniture at an estimated cost of Rs.24,500/- (viz @ Rs.250/- per student for 98 boarders) for the Hostel has been accepted (vide orders dt.25.2.1975) subject to the condition that the share of the Commission for the purpose will be limited to Rs.12,250/- or 50% of the actual expenditure, whichever is less and that this will be the first charge on the Fifth Plan allocation of the University.

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5. Bhopal University-Starting of Departments of Bio-Sciences and Regional Planning and Economic Growth.

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The Bhopal University was permitted to start post-graduate courses (I) in Bio-Sciences and (II) Regional Planning and Economic Growth from the academic session 1974-75, pending the assessment of the requirements of the above departments by the 5th Plan Visiting Committee, the following immediate needs of the Bhopal University for these departments have been approved on 100% basis during 5th Plan period:

A. Staff. (Approved on 22.1.75)

- I). Bio-Science. 1 Professor  
2 Readers.
- II). Regional Planning and Economic Growth. 1 Professor  
2 Readers.

B. Equipment. (Approved on 12.3.75) Rs.60,000/-

For both the departments. The expenditure towards salaries of staff and equipment will be first charge on the 4th plan allocation of the University.

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6. Gujarat University-Provision of Furniture in Hostels.

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The following grants have been approved on usual sharing basis for living room furniture @ Rs.250/- per student in respect of hostel buildings of the Gujarat University approved by the Commission (vide orders dt.26.3.75) during the 5th Plan.

<u>Name of the Hostel.</u>	<u>Grant approved.</u> Rs.	<u>UGC Share</u> Rs.	<u>Date of approval.</u>
1. Construction of Women's Hostel (50 Students).	12,500/-	9,375/-	31.3.75
2. Construction Men's Hostel (50 students).	12,500/-	6,250/-	-do-
3. Construction of Men's (96 Students).	24,000/-	12,000/-	-do-

The above grants will be the first charge on the 5th Plan allocation of the Gujarat University.

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7. Jabalpur University- Extension of the project entitled 'Regional Imbalances in the Economy of Madhya Pradesh.

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The Commission approved research project entitled 'Regional Imbalances in the Economy of Madhya Pradesh' department of Economics, Jabalpur University involving an expenditure of Rs.20,500/- for a period of one year.

The University started implementation of the project with effect from 15th December, 1975 and incurred a total expenditure of Rs.13,111/-. The University approached for extension of the project for a period of one year from 15th December, 1974 to 14th December, 1975. The proposal of the University has been accepted (vide orders dated 20.1.1975).

The Commission's assistance for the extended period will be Rs.24,200/-.

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8. Gujarat University- Enhancement of cost of building of Space Science Centre.

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The Commission approved a proposal of the Gujarat University for a postgraduate Centre in Space Sciences during the IV Plan. The Commission's assistance towards the above project was limited to Rs. 1 lakh.

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The University send a revised proposal at an estimated cost of Rs.1,25,000/- for the construction of building for Space Science Centre. Since the project mentioned above is an on going IV Plan approved scheme, the revised proposal of the University has been accepted on the condition that the Commission's share of Rs.1,25,000/- will be first charge on the V Plan allocation of the University. (This was approved on 1.2.1975).

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9. Gujarat University-Grant for the Publication of a Text Book for Diploma Course in Space Sciences.

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The Gujarat University requested for a grant of Rs.9,200/- for Printing a Text Book for Diploma Course in Space Science and its applications. Since Text Books on Space Sciences are not easily available, the proposal of the Gujarat University has been accepted. This grant would be taken into account while determining the grant that may be given to the Gujarat University for Publications during the V. Plan period. (The proposal was accepted on 30.3.1975).

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- 10. Additional grants to the departments of Special Assistance (Science) for the purchase of Equipments, Books and Journals.

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The Commission at its meeting held on the 14th of April, 1975, considered the question of providing additional basic grants to the departments of Special Assistance (Science) during the Vth Plan period for the purchase of Equipment, Books and Journals.

The Commission vide resolution No.16 desired that instead of providing a basic grant for these purposes, each proposal may be examined on merit, keeping in view the progress. The implementation of the academic programmes of the departments.

In accordance with the above decision of the Commission following additional grant has been agreed to be provided to the department of Special Assistance:-

Deptt. & Univ.	Item	Grant approved Rs.	Grant released.	Date of approval.
i) Botany, Calcutta Univ.	Equipmt.	2,00,000/-	2,00,000/-	20.4.1975
ii) Meteorology, M.H.Univ.	"	3,00,000/-	-	16.5.1975

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- 11. Selection of colleges under college humanities and social sciences improvement programme (COHSIP).

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The University Grants Commission at its meeting held on the 12th May, 1975 (Item No.7) considered proposals received from the colleges which are not at present participating in COHSIP for inclusion in COHSIP. The Commission agreed that the list of colleges to be selected for participation in the COHSIP may be finalised in the light of the discussions held at the meeting of the Commission.

In pursuance of the above decision the following criteria has been adopted for selection Non-COHSIP colleges for participation in the COHSIP.

- 1. The College should not have scored 'Zero' for the following items.
  - a. Examination results.
  - b. Student-teacher ratio,
  - c. Books and Journals.

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2. If a college scores 'Zero' for not having revised number of Ph.D.or M.A's Ist Class in its teaching staff, it should not be considered as a disqualification for selection.
3. Colleges which have a higher grade point for journals than for books may be considered after verification of the data supplied by the them on the basis of above criteria the following colleges 17 colleges which have scored 15 or more points in the grading have been selected (vide orders dt.7.6.1975) for participation in the COHSIP.

<u>Name of the College.</u>	<u>Univ. to which the college is affiliated.</u>
1. St.Joseph's College for Women, Waltair.	Andhra University.
2. M.P.C. College, Baripada.	Utkal University.
3. Bhadrak College, Bhadrak.	-do-
4. D.J. College, Baraut.	Meerut University.
5. M.M. College, Modinagar.	-do-
6. T.V. Patel Arts College, Vallabh Vidyanagar.	Sardar Patel University.
7. S.S.P. Jain Arts and Commerce College, Dhrangadhra.	Saurashtra University.
8. D.K.V. Arts & Science College, Jamnagar.	-do-
9. Smt.N.C.Gandhi Mahila College, Bhavanagar.	S.N.D.T. Women's University.
10. M.J. College of Arts & Science, Jalgaon.	Poona University.
11. V.W.Sabha's Arts & Commerce College, Dhulia.	-do-
12. S.S.V.P. Sansthas Arts & Commerce College, Dhulia.	-do-
13. A.C. College of Arts and Science, Tirucheddur.	Madurai University.
14. S.T. College for Women, Palaaymkottai.	-do-
15. Kamraj College, Tuticorin.	-do-
16. Scott Christian College, Nagercoil.	-do-
17. Govt. Arts, Commerce & Law College, Indore.	Indore University.

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12. Support for advanced research in the Humanities and Social Sciences- First award during 1975-76.

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The University Grants Commission invited proposal from University and college teachers for support for advance research in the Humanities and Social Sciences for first award during 1975-76. The Commission received 132 proposals and these were placed for consideration before the 12 concerned Panels in the humanities and social sciences which met in April and May, 1975. The panels have recommended that the University Grants Commission may provide assistance for 29 projects at a total cost of Rs.8,26,300/-. The Panel further suggested that 11 projects may be provided assistance under short-term projects and further information/views of experts be invited in respect of 53 other proposals. The Panel did not recommended any assistance for 39 projects. Subject-wise position in this regard is given below:-

Subject.	No. of applica- tions received.	No. of proposals approved.	No. of propo- sal approved under short - term projects.	No. of propo. not accepted.	No. of proposals under consideration
1. Social Work.	1	-	-	2	1
2. Sociology.	16	3	1	2	10
3. Law.	3	-	1	-	2
4. Pol. Sc.	17	3	-	8	6
5. Psycho-logy.	11	4	1	2	5
6. Economics.	16	6	1	8	1
7. History.	19	3	4	6	6
8. Lingusts. and Classical Languages.	17	4	-	2	11
9. Philsophy.	3	2	-	-	1
10. Modern Indian Languages.	18	2	2	7	7
11. Eng. and foreign Languages.	3	-	-	-	-
Education.	2	2	2	1	3
<b>Total:</b>	<b>132</b>	<b>29</b>	<b>11</b>	<b>39</b>	<b>53</b>

The details of 29 advanced research projects approved (vide orders dt. 29.5.75) in the humanities and social sciences at a total cost of Rs. 8,26,300/- are given in the Annexure.

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13. College Humanities and Social Science Improvement Programme-Selection of Colleges, etc.

The University Grants Commission at its meeting held on the 10th March, 1975 desired that selection of COSIP colleges for participation in the COHSIP should be contingent on their good performance in the COSIP.

Keeping in view the above decision the following 12 COSIP colleges have been selected for participation in the COHSIP:-

1. C.M.S. College, Kottayam, (Kerala University).
2. Maharaja's College, Ernakulam. (Kerala Univ.)
3. Andhra Loyola College, Vijayawada. (Andhra Univ.)
4. G.M. College, Sambalpur. (Sambalpur University).
5. Christ Church College, Kanpur. (Kanpur University).
6. Raghu Nath Girls College, Meerut. (Meerut University).
7. Govt. College of Arts & Science, Aurangabad. (Marathwada Univ.)
8. B.N. College, Patna. (Patna University)
9. I.T. College, Lucknow. (Lucknow University).
10. A.N. College, Patna. (Magadh University).
11. Jawahar Bharati, Kavali. (S.V. University)
12. D.S. College, Aligarh. (Agra University).

With the addition of the above noted colleges the total number of COSIP colleges which have been selected (vide orders dt. 7.6.1975) for participation in the COHSIP would be 54 in all.

14. Provision of additional funds to the Centres for Advanced Studies in for meeting expenditure towards payment of TA/DA to the members of the Advisory Committee and TA to the candidates called for interview for award of fellowships.

The U.G.C. Advisory Committee for the Centres of Advanced Study in the Humanities and Social Sciences at its first meeting held on the 9th May, 1975 considered the question of providing additional funds to the Centres for meeting expenditure towards payment of TA/DA to the members of the Advisory Committee of the Centres and TA to the candidates called for interview for award of fellowships. The Committee recommended that additional funds may be provided to Centres and Departments of special assistance for meeting expenditure on payment of TA and DA to the external members of the Advisory Committee and TA to candidates called for interview by the Centre for award of scholarship and fellowship allocated to them. The recommendation of the Committee has been accepted (vide orders dt. 10.6.1975).

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15. Financial assistance to teachers for short-term projects in the humanities and social sciences-First award during 1975-76.

The University Grants Commission invited applications from teachers for financial assistance for short-term projects for the first award during 1975-76. For this award 228 applications were received from universities and colleges. These applications were placed for consideration before 12 panels in humanities and social sciences which met in April/May, 1975. The panels have recommended a total grant of Rs. 2,15,628/- for 90 projects, 14 proposals are under consideration and these cases will be reported to the Commission after necessary information as desired by the panel is available. Panelwise position in this regard is indicated below:-

S.No. Panel	No. of applications received.	No. of projects approved.	No. of projects not accepted.	No. of projects under consideration.	Amount recommended. Rs.
1. Social Work.	1	1	-	-	3,000/-
2. Sociology.	14	11	3	-	27,000/-
3. Law.	5	3	2	-	11,000/-
4. Pol.Sc.	24	4	16	4	16,500/-
5. Psychology.	11	5	4	2	12,800/-
6. Economics.	46	17	26	3	37,500/-
7. History.	20	10	7	3	30,500/-
8. Linguistics					
Classical Languages.	21	4	16	1	6,000/-
9. Philosophy.	9	2	7	-	6,900/-
Modern Indian Languages	38	17	20	1	28,500/-
English and Foreign Languages.	17	2	15	-	2,000/-
12. Education.	22	14	8	-	33,928/-
<b>Total:</b>	<b>228</b>	<b>90</b>	<b>124</b>	<b>14</b>	<b>2,15,628/-</b>

The recommendations made by the Panels on the proposals received for assistance for short-term projects have been accepted (vide orders dt.4.6.75 ) and a grant of Rs.2,15,628/- has been approved for 90 projects as per details given in the Annexure.

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16. Approval of the revised estimates for construction of building for Women's Polytechnic-S.N.D.T.Women's University, Bombay.

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The Commission at its meeting held in December, 1969 /  
a pro- vision for the construction of a building covering an area of 50,900 Sq.ft.  
vision for a Women's Polytechnic at the S.N.D.T.Women's University,  
of Rs. Bombay. The Commission share @ 75% was to be Rs.10,68,000/-.  
The University later on sent plans and estimates for Rs.26,25,000/-  
for the construction of the building covering an area of  
49,468 Sq.Ft. against 50,900 Sq.ft. approved. The University  
requested that Commission's share may be increased to Rs.19,68,750/-.  
The matter was considered by the Commission and referred it to  
the A.I.C.T.E. for advice.

On the recommendation of the A.I.C.T.E., the proposal  
of S.N.D.T.Women's University for the construction of a Women's  
Polytechnic at Bombay, at the revised cost of Rs. 26,25,000/-  
has been accepted, the U.G.C. share for the project being  
Rs. 19,68,750/-. The university has revised the estimate of the  
building on the basis of the lowest tender accepted for the  
construction work to Rs. 42,39,480/-. The U.G.C. Share at 75%  
of the revised estimates works out to Rs. 31,79,610/- which has  
been approved (vide orders dated 30.4.1975).

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17. Madurai University-Implementation of Examination Reform Programme.

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The Commission at its meeting held on 8th July, 1974  
(Item No.9) considered the question of inclusion of some more  
Universities in the scheme of special assistance towards  
examination reform programme and was of the view that if any  
University has a specific programme of Examination Reform it may  
submit its proposal and this may be considered within the  
ceiling of Rs. 60 lakhs already earmarked for examination reform  
programme during the V Plan.

Accordingly, the proposal of the Madurai University  
for a grant of Rs. 11,270/- towards organising a workshop on  
the semester system has been accepted (vide orders dt.16.5.75)  
and the University informed accordingly.

It may be mentioned in this connection that the  
Madurai University has introduced the semester system and  
internal assessment in a number of subjects. Internal assessment

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has been introduced in the Postgraduate departments of History, English, Tamil, Mathematics, Physics, Chemistry, Botany, Zoology and Biology and for B.A., B.Sc. special examinations and the B.B.A. examination. The weight given to internal assessment varies from 11.6 per cent to 50 per cent. The marks for internal assessment are shown separately and the necessary books are returned to the students and an opportunity also given to them to represent against marks/grades in internal assessment. The University is also considering the question of developing question banks.

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18. Participation of Dr. D.Shankar Narayan, Additional Secretary, University Grants Commission in a Symposium on the "Ethical Problems Posed by the Progress of Biology Concerning Man's Life and Old Age" to be held at Varna, Bulgaria from the 24th to 27th June, 1975.

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Dr. D.Shankar Narayan, Additional Secretary, University Grants Commission has been permitted to participate in a Symposium on the "Ethical Problems Posed by the Progress of Biology Concerning Man's Life and Old Age" to be held at Varna, Bulgaria from the 24th June, 1975 to 27th June, 1975 (vide orders dated 3.4.1975) and also to visit London and Paris for a few days each prior to his visit to Varna, Bulgaria in connection with certain programmes of scientific collaboration. The Unesco, Paris is to meet the cost of his inter-national travel Delhi-London-Paris-Varna-Delhi and will also pay per diem for living expenses for the days of his visit to Varna and Paris. The British Council, London will meet his diem expenses while in London.

The period of absence of Dr. Shankar Narayan for the above purposes has been agreed to be treated as on deputation abroad. During the period of his deputation abroad, Dr. Shankar Narayan will be treated as on duty and will receive full pay and allowances at the rates admissible to him but for proceeding abroad on deputation.

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19. Creation of temporary posts for the work relating to the Third National Survey (Higher Education Sector) at the headquarters level in the University Grants Commission.

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The Advisory Committee of the Survey (Higher Education) in February, 1974 suggested creation of the following posts on fixed monthly emoluments for the Third National Survey (Higher Education Sector) at the headquarters level.

<u>Name of Post</u>	<u>No. of post(s)</u>	<u>Fixed Monthly emoluments.</u>
1. Chief Coordinator	1	Rs. 1500/-
2. Coordinator	2	Rs. 1000/-
3. Senior Statistical Assistant.	2	Rs. 750/-
4. Statistical Assistant	4	Rs. 500/-
5. Office Assistant	1	Rs. 400/-
6. Typist	2	Rs. 300/-
7. Despatch Clerk	1	Rs. 300/-
8. Peon.	1	Rs. 200/-

While the members of the Advisory Committee as well as the following six institutions were addressed to suggest names for filling up the posts of Chief Coordinator, Coordinator, Senior Statistical Assistant and Statistical Assistant, requisition for the posts of Senior Statistical Assistants, Statistical Assistants, Office Assistant, Typists and Despatch Clerk was sent to the Director of Employment Exchanges with a copy to University Employment Information and Assistance Bureau, University of Delhi and Sub-Regional Employment Exchange, Darya Ganj, Delhi:

1. Indian Institute of Management, Ahmedabad, Calcutta and Bangalore.
2. Institute of Applied Manpower Research, New Delhi.
3. Planning Commission, Education Division, New Delhi.
4. Central Statistical Organisation, Cabinet Secretariat, New Delhi.
5. Indian Statistical Institute, Calcutta.
6. National Council of Applied Economic Research, New Delhi.

The vacancies were also circulated in the office and it was decided that if departmental candidate of UGC also was selected for any of the posts mentioned above, he will be treated as on deputation and paid deputation(duty) allowance

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upto 10% of their pay subject to a maximum of Rs.100/- p.m. from the Survey Funds on pay drawn by them in the UGC from time to time plus allowances admissible in the UGC or will be allowed to draw the fixed monthly emoluments on their option with payment of leave salary and pension contribution, etc. to the UGC by the Survey for the purpose of retention of their lien on their substantive posts in the UGC.

Action was than taken to make selections for the posts through Selection Committee; appointed for the purpose. In the meanwhile, the Chairman of the Third National Survey Committee raised objection with regard to the admissibility of payment of deputation(duty) allowance to the selected departmental candidates. It was therefore decided (vide orders dated 20.5.75), under these circumstances now prevailing, to treat the selections already made for various categories of posts for the Survey as null and void and to create as a temporary measure posts suggested by the Advisory Committee, in the office of UGC itself on regular scales of pay, and to fill by promotion from the departmental candidates. The following temporary posts have accordingly been created in the office of the University Grants Commission for the work relating to the Third National Survey (Higher Education Sector) at the headquarters level (vide orders dated the 20th May, 1975) in the scales of pay indicated against each:-

S.No.	Name of the Post.	No. of posts.	Scale of Pay.
1.	Chief Coordinator.	1	Rs.1200-50-1600
2.	Coordinator.	2	Rs.650-30-740-35- 880-EB-40-960
3.	Senior Statistical Assistant.	2	Rs.550-25-750-EB- 30-900.
4.	Statistical Assistant.	4	Rs.425-15-500-EB-15- 560-20-700
5.	Office Assistant.	1	Rs.425-15-500-EB-15- 560-20-700-EB- 25-800.
6.	Typist/Despatch Clerk.	3	Rs.260-6-290-EB-6- 326-8-366-EB-8- 390-10-400.
7.	Peon.	1	Rs.196-3-220-EB-3- 232.

Out of the above posts, the creation of the posts of Coordinator(1) and Senior Statistical Assistants(2) for a period of six months with effect from the 21st May, 1975(forenoon) has been notified and the posts have been filled by promotion of the departmental candidates. The expenditure on the above posts will be met out of the funds to be made available for the Third National Survey(Higher Education Sector).The remaining posts for the Survey will be filled as the work progresses.

- 20. Creation of a post of Education Officer consequent to regularization of an "in lieu" post of Assistant Secretary and conversion of a supernumerary post of Education Officer into that of a permanent post of Education Officer.

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In order to make good the loss of one regular post of Branch Officer consequent upon the reversion of Dr.R.K. Mathur to his parent office w.e.f. the 17th December, 1974 (afternoon) and regularization of one "in lieu" post of Assistant Secretary a permanent post in the cadre of Education Officer in the revised scale of pay of Rs.1200-50-1600 has been created (vide orders dated 20.5.1975) with effect from the date the post is filled. A supernumerary post of Education Officer has also been converted into that of a permanent post of Education Officer (vide orders dated 20.5.1975) with effect from the date the post is filled. Consequently, the regular strength of Branch Officers in the two cadres of Education Officer and Assistant Secretary will stand revised as under and will conform to the number of Branch Officers already sanctioned and provided for in the budget:-

Education Officer.	-10
Assistant Secretary	- 8

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- 21. University Grants Commission Contributory Provident Fund - Rates of Interest.

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The Government of India have notified that the accumulations at the credit of the subscribers to various provident funds during the year 1975-76 will carry interest at the rate of Rs.7.50 per cent on sums upto Rs.25,000/- (inclusive of deposits and withdrawals) and at the rate of Rs.7.00 per cent per annum on sums in excess of Rs.25,000/- and the rate of interest will be in force during the financial year beginning on 1st April, 1975.

As the University Grants Commission allows the rates of interest as prescribed by the Government of India from time to time on subscriptions and balances to its General Provident Fund and other similar funds, the above rates of interest have been adopted by the University Grants Commission (vide orders dated the 27th May, 1975) for subscriptions and balances at the credit of subscribers to the University Grants Commission Contributory Provident Fund in terms of Rule 12(1) of the University Grants Commission on Contributory Provident Fund Rules, 1956.

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Annexure to Item No. 2(a)(12)

UNIVERSITY GRANTS COMMISSION

Details of proposals approved under the scheme of support for advanced research in the Humanities and Social Sciences for first award during 1975-76.  
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S.No.	Name, age & Designation of the Investigators.	Title of the proposed work/duration.	Account approved under purpose.
<b>SUBJECT : SOCIOLOGY</b>			
1.	Dr. S.C. Tiwari, Reader in Anthropology Delhi University.	'Socio-Biological study of three small Endogamous isolated ethnic groups of Indo, Nepal tibetan Border as a pilot project ( 1 year )	20,000/- for 2 Junior fellows, Travel, Chemicals, Stationary and Misc. items.
2.	Dr. K.S. Mathur, Head of the Anthropology Deptt. Lucknow University.	Cultural processes among the Jaunsarisa A Study of a Cis Himalayan Tribe ( 2 Years)	60,000/- for Res./Sstt. Fellow Investigator Travel, Stat. Equipment Printing, Typing.
3.	Dr. P.C. Deb, Associate Prof. of Sociology, Panjab Agriculture University, Ludhiana.	Social Implications of Green Revolution in Rural Punjab ( 2 Years)	15,000/- for 1 Res. fellow, Travel and Stationary.
<b>SUBJECT : POLITICAL SCIENCE</b>			
4.	Dr. D.S. Choudhary, Lecturer, Kurukshetra Univ.	'Bureaucracy and Economic Development in Haryana - A study at the District level. ( 1/2 years)	5,000/- for 1 Res. Sstt., Travel and Stationary, Typing and Questionnaire
5.	Dr. (Mrs.) Sasheela Kanshik, 36 years, Reader, Delhi University.	A study of the factors of the Rise and Growth of the Dravidian Movement ( 2 years )	15,000/- 1 Res. Sstt. Travel, Books, Stationary typing. Contact Prof. I. Narain for sharpening the focus of the project and working out operational details.
6.	Sh. H.A. Khan, 39 years, Reader and Head, Mysore University.	Assesment of the Public Library Development in Tamilnadu Andhra Pradesh Kamatak and Maharashtra ( 3 years)	14,000/- Books, Journals Res. Sstt. Questionnaire and Stationary.

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		<u>SUBJECT : PSYCHOLOGY</u>	
7.	Dr. R. Rath, Prof. & Head of the Department of Psychology, Utkal University.	Conceptual Growth & class room achievement of Primary School children of Orissa (3 years)	38,000/- Res. Asstt. F.W. Computation Work. test material stationary.
8.	Dr. G.C. Gupta, 43 years, Reader, Delhi University.	Information processing in human spatial orientation behaviour (2 years)	12,500/- Res. fellow Books, F.W. Stat. equip. & Stimulus material.
9.	Dr. S.K. Misra, Reader in Psychology, Utkal University.	Amygdala Lesions in the Rat - A Study of role of Amygdala in Exploratory behaviour. (3 years)	27,000/- Res. fellow Tech. Asstt. Rats & their maintenance stationary and typing Chemicals.
10.	Dr. M.M. Sinha, Senior Professor, Deptt. of Psychology, Banaras Hindu Univ.	Effect of Hersaponin upon symbolic behaviour of Albino rats (2 years)	20,000/- 1 Res. Asstt. equipment, Rats and their foods.
11.		<u>SUBJECT : ECONOMICS</u>	
11.	Dr. P.R. Panchamukhi, Reader, Deptt. of Economics, Bombay University, Bombay.	Socio-economic Environment and Education of Women, A quantitative analysis. (1 Year)	20,000/- Res. Asstt. Travel, Stat. Comp. work, investigator and contingencies.
12.	Sh. S.R. Subramaniam, Asstt. Prof. in Agri- Economics, Tamilnadu Agrl. University, Coimbatore.	Pattern of consumption Savings and investment in Agriculture. (2 years)	50,000/- Res. and Tech. Asstt. F.W. Books. Comp. Work Questionnaire.
13.	Dr. R.B. Misra, Lec. Govt. College, Seoni.	Increasing Income & production in Madhya Pradesh farming. (11 months)	10,000/- 1 investigator 2. Travel / F.W. 3. Comp. Charges
14.	Dr. C.H. Shah, Prof. of Agril. Economics, Deptt. of Economics, University of Bombay, Bombay.	Technological change in Agriculture - its nature, Implications and measurement (1 year)	25,000/- Stat. Asstt. Res. Asstt. Comp. Travel, Stat. postage.

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15.	Prof. A.P. Ghosh, Prof. of Economics, Jadavpur University, Calcutta.	A scheme for Research into growth of Metropolitan cities of India ( 2 years)	30,000/- Res Fellow Comp. work, Travel Books & equipment.
16.	Dr. S.K. Bhattacharyya, Prof. of Economics, University of Calcutta, Calcutta.	Trade flows of West Bengal An Analytical Survey ( 2 years )	60,000/- Res. Investigator Travel, F.W. Books Comp. work, State. postage.
		<b>SUBJECT : HISDRY</b>	
*17.	Sh. Kamaluddin Ahmed 33 years, Lecturer, Karinganj College, Karinganj (Assam)	Arts and Architecture of Assam A Historical Study of the Art and Architecture of Assam from the ancient time to the end of the Ahom Rule ( 2 years )	20,000/- Travel F.W. Books, Journals Comp. work, Stationary postage investigation questionare
18.	Dr. J.S. Grewal, Prof. & Head, Guru Nanak University.	Urbanization in the Upper Bari Doab (1600-1947) ( 3 years )	40,000/- 1 Res. Asst., Travel M.S.S. Books & Journals, Stationary
19.	Sh. Achir Chakravarti, 43 years, Lecturer, Jhargram Raj College, Midnapore, (West Bengal)	Khmer Palaeography ( 3 years )	10,000/- Res. Asst. F.W. Books and Journals Postage, Stationary
		<b>SUBJECT: SANSKRIT</b>	
20.	Dr. Ram Murti Shama Lecturer, Delhi University, Delhi.	Dictionary of Vedanta ( 3 years )	10,000/- 1 Res. Asst. Books Journals and Stationary.
21.	Dr. Sadashiv Ambadas Dange, 52 years, Reader, Bombay Univ.	A motif Index of the Purana's ( 3 years )	15,000/- Res. Asstt. Books and Postage.
22.	Dr. Kaushalya Gupta, Lecturer in Sanskrit, Miranda House, Delhi.	A study of Ganjifa on the basis of Sanskrit and allied sources. ( 2 years )	7,000/- Micro film Books Journals, Stationary postage MSS and translation.
23.	Dr. Shantilal Acharya, 40 years Reader in Linguistics, Gujarat Vidyapith, Amedabad.	LINGUISTIC survey of Gujarati Dialects spoken in North Gujarat region ( 3 years )	42,000/- Res. Asstt. Informants F.W., Books, Journals Stat. postage. equipment. questionare

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SUBJECT : PHILOSOPHY

24. Dr. R.C. Pandeya, English translation and 15,000/-  
Prof. of Philosophy, analysis of Pratyaksha Res. Asstt. Books  
Delhi University, Lakshana of Gangoshas work Travel.  
Delhi. ( 2 years )
25. Dr. Daya Krishna, Index to the articles published 10,000/-  
Philosophy Department, Philosophical journals, Res. Asstt. Tech.  
Rajasthan University, ( 1 year ) Asstt. Travel  
Jaipur. Postage and stationery

SUBJECT : GUJARATI

26. Dr. Suresh Dalal, Developing a source book of 25,000/-  
Head of the Deptt. Poetries in Gujarati. Res. Asstt.  
S.N.D.T. Women's Univ. ( 3 years ) Travel, Stat.  
Bombay. Books.

SUBJECT : KANNADA

27. Dr. B.B. Hendi Survey, collection, 65,000/-  
Lecturer in Kannada editing, publication of Folk Res. Asstt. Tech.  
studies, Karnatak in tales and Folk songs of North Asstt. Travel.  
P.G. Centre, Gulabarga Kamatak ( 3 years ) F.W., postage, Stat.  
Remuneration to  
informants and  
writers.

SUBJECT : EDUCATION

28. Prof. E.A. Bohan Evaluation of Satellite 1,32,800/-  
Prof. of Communication, instructional Television For Res. fellow and  
Bangalore University. experiment (software) Asstt. F.W. Books,  
Karnatak Cluster C.W. equipment,  
( 2 years ) Questionnaire  
Stationary.
29. Prof. B. Adval, Analysis & improvement of 1,3,000/-  
Prof. of Education, tools and techniques of Res. Asstt.  
Allahabad University. selection to M.Ed. courses and other Misc.  
( eight months ) expenditure.  
The project was  
approved by V.C. after the  
had met.

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Annexure to Item No.2(a) (15)

Financial assistance to teachers of short-term projects in the Humanities and Social Sciences- Proposals recommended by the Panels in the Humanities and Social Sciences for first award during 1975-76.

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No.	Name & Designation & Institution.	Topic of work	Amount Recommended.	Purpose
2.		3.	4.	5.
<u>SOCIAL WORK.</u>				
1.	Mrs. Raj Bhanti Lecturer Udaipur School of Social Work Rajasthan Vidyapith Udaipur. Udaipur University.	A study of Welfare Programmes in Rajasthan with spl. ref. to Women and Children (for Ph.D.)	3,000/-	F.W. Prepara- tion of Question- naire C.W. Books & Journals.
<u>SOCIOLOGY.</u>				
2.	Shri P.K. Gupta, Principal, Mathbhanga College, P.O. Mathabhanga, Cooch-Behar, North Bengal Univ.	Stratification and Religions in the Rabha Society of Tufanganj.(for Ph.D.)	4,000/-	Books Equipt.
3*	Shri C.L. Sharma, Asstt. Professor S.B.S.H. College, Udaipur. Udaipur University.	Problems and Perspectives of Changing Scheduled Castes in Rajasthan.	3,000/-	Stationer Typing & Clerical works. F.W. Books & Journal. Postage Cont.
4.	Shri J.S. Rathore Head, G.S. Degree College, Chandpur Siau (Bijnor) Agra. Univ.	Sociological Study of Emerging Leadership in the Villages of Rohelk hand Division.	1,500/-	Stationer. Printing F.W. Typewrite
5.	Shri T.N. Tripathi Lecturer Nagrik Degree Coll., Jangha, Jaunpur. Gorakhpur University.	Functioning of Industrial Bureau- cracy in Private and Public Sector in India (for Ph.D.)	2,500/-	Question- naire F.W. G.W. Equipt. Books & Journals.

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1.	2.	3.	4.	5.
6.	Shri S.B.Singh, Principal, Sahkari Degree College, Mihrawan, Jaunpur) Gorakhpur Univ.	Inter-Communal Relationship in a Semi Urban Setting. (For Ph.D.)	1,500/-	F.W. Books & Journals Printing of Questionnaire.
7.	Shri Anne Felice, Lecturer, St. Teresa's Coll., Ernakulam. (Kerala Univ.)	A study of the Sociometric Status of Harijan students in Colleges.	500/-	F.W. Stationery Printing and Questionnaire Typing and preparation of thesis.
8.	Shri C.C.Shukla Lecturer B.S.N.V.Degree College, Lucknow Lucknow Univ.	'Workers Participation and Industrial Democracy' (A sociological study of the workers in Printing Press Industry of Lucknow) (for Ph.D.).	2,000/-	Books F.W.
9.	Shri Y.K. Jaiswal, Lecturer Ranchi College, (Ranchi Univ.).	The Pathology of Domestic Relation- ship among the Ghasi and Bhogta of Ranchi Distt. (For Ph.D.).	1,000/-	F.W. Books.
10.	Shri Imtiaz Ahmed, Associate Prof. in Sociology, School of Social Scs. Centre of Pol.Studies, J.L. Nehru Univ.	Popular Islam Structure of Beliefs & Practices.	4,000/-	F.W. Books.
11.	Shri R.C. Trivedi, Lecturer Udaipur School of Social Work, Rajasthan Vidyapeeth, Udaipur.	Family Structure change in the Ex- Jagirdars of Rajasthan. (Mewar)	3,000/-	F.W. Books.
12.	Shri A.K. Halдар, Ranchi University.	The mining industrial Demonstrator industrial labourers of Chhota Nagpur. A socio economic study.	4,000/-	F.W. Equipment questionnaire

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LAW.

- 13. Shri Raghbir Singh Lecturer Univ. College of Law. Udaipur Univ. "Wage Disputes in Private and Public Sector Enterprises. (in India: A comparative legal study of issues and Alternatives involved". (for Ph.D.) 4,000/- Stationery & Typing Job Books, Journals and Reports F.W.
- 14. Shri C.J. Samuel Univ. College of Law, Udaipur Univ. Asstt. Prof. A study of industrial Accidents in India with sp.ref to nature Causation and Prevention. (for Ph.D.) 5,000/- F.W. Questionnaire Books & Journals.
- 15. Shri R.K. Raizada, Lecturer, Kurukshetra Univ, Kurukshetra. Trends in sentencing in India-A study of the Supreme Court and High Court decisions in two decades and the central statutes. 2,000/- Books F.W.

POLITICAL SCIENCE.

- 16. Dr.(Mrs.) Nalini Natarajan, Lecturer, North Eastern Hill University. The functioning of Democracy in an Assamese and Khasi Village : A comparative study. 4,000/- Postage Books and Journals F.W.
- 17. Mrs. Indra Kaushal Sud, Lecturer, Kamla Nehru Coll., New Delhi. Foreign Policy of Zambia. (for Ph.D.) 5,000/- Journals, Periodical Books F.W.

PUBLIC ADMINISTRATION.

- 18. Sh.Anter Singh Offg. Head, B.V.Gyan Vigyan Mahavidyalaya, Banasthali Vidyapeeth, Raj. Water Management and Development Administration. A comparative study of two Distt. in Rajasthan. 2,500/- Collections Questionnaire F.W.
- 19. Dr. K.M. Deka, Reader, Dibrugarh Univ., Dibrugarh. Bhutan(1958-74) A study in the processes of Political Changes & Modernization. 5,000/- F.W., Books Journals.

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2. 3. 4. 5.  
PSYCHOLOGY.

20.	Shri R.N. Prasad, Demonstrator, Magadh University, Bodh-Gaya.	A Socio-Psychological study of Caste Prejudice among College students'. (for Ph.D.)	3,000/-	Test Processing of data F.W.
21.	Dr.A.K.Varma, Lecturer Ewing Christian Allahabad University, Allahabad.	Teachers selfconcept and Job involvement (for Ph.D.)	2,000/-	Questionnaire F.W. Subject to the working under Dr. D.N.Sinha.
22.	Shr.B.M. Contractor Lecturer, G.L.S. Arts Coll., Ahmedabad (Gujarat Univ.)	Educational Attainment as a function of some personality and situational variables. (for Ph.D.)	1,800/-	Equipment, C.W. Stationery & Printing Books F.W.
23.	Shri S.S.Jha, Lecturer, Gaya College, Gaya. (Magadh Univ.)	Studies of Vigilance under varying experi- mental conditions with spl. ref. to personality variables.	4,000/-	Books and Journals Printing of tools.
24.	Shri Tehal Kohli, Lecturer, Govt. Mahendra Coll. Patiala. (Punjabi Univ.)	"Characteristic behavioural and environ- mental corelates of academic achievement of over and under achievers at different levels of intelligence.(for Ph.D.)	2,000/-	F.W. Printing of quest.
25.	Shri K.K.Saxena, Lecturer; School of Basic Sciences, Udaipur. (Rajasthan).	Input-Output Model for Rajasthan's Economy. (for Ph.D.)	3,000/-	Books and Journals Computation Charges. F.W.
26.	Shri AS.Bhattacharya, Lecturer , Barrackpore Rastraguru Surendra Nath College, Calcutta. (Calcutta Univ.)	Problems of 'Sick' Industries in West Bengal.	2,500/-	Books and journals. F.W. Questionnaire. Computation.
27.	Shri Ram Narain, Lecturer, B.N.C.Govt. College, Bhiwani. (Kurukshetra Univ.)	Economics of Lift Irrigation Schemes in Haryana. (for Ph.D.)	2,000/-	Books F.W.

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1.	2.	3.	4.	5.
28*	Shri C.D. Dubey, Lecturer, Mathura Degree- College Rasra, Ballia. (Gorakhpur Univ.)	Naya Krishi Vikas Karyakarmo ke Sandrab main sehkeri Sasthan ke Yogian ka Mulyakan Purvi Uttar Pradesh. (for Ph.D.)	3,000/-	F.W. Prepara- tion of Questionnaire Books and Journals.
29.	Shri B.V. Mehta, Lecturer, Gujarat College, Ahmedabad, Gujarat Univ.	Economics of Dairy Industry in Gujarat (with Spl.ref. of Development during post- independence period). (for Ph.D.)	3,000/-	Computer charges Equipment and Books.F.W.
30.	Shri S.V. Perumal, Asstt. Professor Arignar Anna Coll., Kanyakumari Distt. Madurai Univ.	Plantation Labour in Kanyakumari District. (for Ph.D.)	1,500/-	Questionnaire Books & Journals.
1.	Shri N.S. Bhatm Lecturer, St. Philomena Coll., Pattur.(S.K.) Mysore University.	Banking Expansion and Economic Development- A study in Monetary Enterpreneurship-A case study of the Syndicate Bank in Mysore (Karnataka State). (for Ph.D.)	1,000/-	F.W.
32.	Shri C.D. Lahiri, Lecturer, A.C. College of Commerce, Jalpaiguri, (North Bengal Univ.)	Agricultural Enterprise in North Bengal-A study in Farm Economy in Jalpaiguri (1973-75) (for Ph.D.)	2,000/-	Books and Journals. F.W. Misc.
33.	Mr. Santosh, Ramchandra Dastane Lecturer, N.Wadia College, Poona.(Poona Univ.)	Impact of the revised wage-Structure on the Printing Industry in Maharashtra.	2,000/-	Books and Journals Reports Questionnaire F.W.
34.	Shri K.C. Yagnik, Professor, Samaldas Arts Coll., Bhavnagar. (Saurashtra Univ.)	Conciliation and Industrial Development An Operational analysis with spl.ref. to Gujarat State. (for Ph.D.)	2,000/-	Books F.W. Questionnaire.
	Dr. L.N. Gupta, Lecturer, Dungar College, Bikaner.	The Utilization pattern of institutional Finances by Farmers of Rajasthan. A case study of Agro-Industrial Belt.	2,500/-	F.W.C.W. Books and Journals.

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36.	Shri S.M. Chaudhri Lecturer, Govt. P.G. College, Sri Ganganagar, (Raj. University).	"An Economic Study of Rajasthan State Road Transport Corpo- ration. (RSRTC).	2,500/-	Books F.W.
37.	Shri RM. Mohan Rao, Lecturer, Andhra University, Waltair.	A study of inter-State Variations in the Progress and efficiency of Cooperative Agricul- ral Credit Societies.	4,000/-	Books F.W. C.W.
38.	Shri P.V. Sharma, Associate Lecturer, College of Arts Commerce & Law, Andhra University.	An analysis of factors affecting demand for fertilisers and estimation of future demand. Study of Andhra Pradesh. (for Ph.D.)	1,500/-	Computer F.W. Books
9.	Shri AK. Chaudhuri, Lecturer, A.C. College, Jalpaiguri. (North Bengal Univ.)	Dispersal of Industries, Problems and Policies. (for Ph.D.)	500/-	Books and Journals F.W.

COMMERCE.

0.	Shri O.P. Gupta, Lecturer, Delhi University, Delhi.	Behaviour of Share Prices in India. (for Ph.D.)	2,000/-	Books and Articles Processing Questionnaire F.W.
1.	Shri P.A. Rahiman, Lecturer, Farook College, P.O. Calicut.	Costing Pattern of the Public Works in Kerala State. (for Ph.D.)	2,500/-	F.W. Misc.

ISTORY.

2.	A. Sundara, Reader, Karnatak University.	Archaeology of the Western Ghat and Coastal Region Covering North Part of South Kanara Western Part of Shimoga Distt. North Kanara Distt. and Southern parts of Kolhapur distt. and Goa.	3,000/-	F.W.
	Shri S.P. Ghosh Lecturer Sri Chaitanaya Coll Distt. 24-Parganas. West Bengal.	A study of the temples of Nadia Distt. (Ancient Medieval and Early Modern)	3,000/-	Books and Journals F.W.

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44.	Shri S.N.Tiwari, Lecturer, B.V.College of Art and Science, Banasthali Vidyapith (Raj. University).	The role of Business Community in Rajasthan. (1850-1947).	3,000/-	F.W. Books.
45.	Shri Pema Ram, Lecturer, B.V.College of Arts & Science, Banasthali Vidyapith, (Raj. University).	The Religions movements in Medieval Rajasthan.(for Ph.D.)	2,500/-	Books and Journals. F.W.
46.	Shri G.S.Dahiya, Lecturer, Guru Nanak Univ. Amritsar.	Ladakh in the later half of the 19th century.	2,000/-	Books Misc. F.W.
47.	Dr. R.N. Mehta, Prof. in History, Baroda University.	Puranas and Archaeology Prabhas Khanda a study.	3,000/-	F.W.
48.	Dr. S.S.Nigam, Lecturer, Govt. College, Ratlam.	A study into the Khangara-Bundela relationship in Bundel- khand during 11th and 13th Century.	4,000/-	F.W.
49.	Dr. SC.Mukhopadhyaya, Lecturer, B.H. University, Varanasi.	British Residents at the Durbar of Bengal Nawabs at Murshidabad (1757-1772).	3,000/-	Books F.W.
50.	Shri M.L.Kapur, Lecturer, Jammu University.	Pol.History of the J & K State under Maharaja Pratap Singh from 1885 to 1925.	2,000/-	F.W.
51.	Shri C.S.N.Patnaik, Asstt. Lecturer, Govt. College for Women, Guntur.	A study of practical work in Sculpture mainly Bronze casting and urud etc.	5,000/-	F.W. Books.

LINGUISTICS.

52.	Shri PS.Subrahmanyam Reader, Annamalai University Annamalainagar.	Descriptive study of the Adilabad Dialect of the Kolami Language.	2,000/-	F.W. Books.
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53.	Shri M.S.Ningomba, Asstt. Professor, J.L.Nehru Centre of P.G.Studies, Imphal.	A Descriptive Grammar- of Maring. (for Ph.D.)	1,500/-	Books.
54.	Shri S.Khudratulla, Lecturer & Head, Farook College, Calicut. Calicut University.	Loan words from Urdu and Persian in Malayalam and their Phonetical & Sementic Modifications.	1,500/-	Books Journals.
<u>PERSIAN.</u>				
55.	Shri S.N. Hadi, Reader, Aligarh Muslim University.	Persian Historiography.	1,000/-	Microfilm/ Photocopy.
<u>PHILOSOPHY.</u>				
56.	Dr. R.L. Singh, Lecturer, Allahabad Univ.	The concept of the Unconditioned in Indian and European Thought: A Critical and Compara- tive study (with spl.ref. to Spinoza, Kant, Hegel, Bradley, Samkara and Nagarjuna).	2,500/-	Books.
57.	Shri G.S.Ramaiah Lecturer, Andhra University.	A Socio-Philosophical study of the changing patterns of Bhakti Gutt among Andhras in selected areas in the post independent Era.	4,400/-	F.W. Books &
<u>HINDI.</u>				
58.	Dr. P.Appala Raju, Lecturer, Andhra University, Waltair.	The nature and various forms of consciousness depicted, to the Hindi Nai Kavita.	2,000/-	Books & Journals F.W.
59.	Shri S.N. Lal, Lecturer, Kashi Vidyapeeth Varanasi.	Sant Shivaram, Unka Bhakti Jaimal Granth mat aur Prampara. (for Ph.D.)	1,000/-	Books F.W.
60.	Dr. G.P. Gupta, Asst. Professor Govt. Postgraduate College, Tikamgarh. A.P.Singh Univ.	Bundelkhand ke Agyrt Rachnakar.	1,000/-	Books.

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61.	Shri R.D. Agarwal, Lecturer, Meerut College, Meerut. Meerut University.	Stylistical study of Hindi Prose-forms.	2,500/-	Books F.W.
62.	Shri V.P.Satpute, Lecturer Janata College of Education, Chandrapur Nagpur University.	Hindi aur Marathi ke Nibandhon ka Tulnatmak Adhyan (1873 to 1920).	500/-	Books F.W.
63.*	Shri H.S. Sharma, Lecturer Bihani College of Education, Sriganganagar. (Rajasthan Univ.)	"Swantryoanter Kalin Hindi ke Nayika Pradhan Mahakavyo me Nari Chetna ka Swarup". (for Ph.D.).	500/-	Books.
64.	Shri P.Subramanyam Head, S.D.G.S. College, Hindpur. Sri Venkateswara Univ.	Prasadottar Natak Sahitya Shilp Vikas (for Ph.D.)	500/-	Books.
65.	Shri Irshad Ali, Lecturer, S.N. College, Azamgarh, Gorakhpur Univ.	Purvanchal ke muslim lok Geeton ka Adhyan. (A study of Muslim folk songs in the Eastern part (for Ph.D.)	1,500/-	Tape Recorder 40 tapes Books & Journals.
66.	Shri N.K.Hazra, Lecturer, P.K.Haridas Nandi College, P.O.Kanpur. Howrah.	Sanjib Chandra Bangla Sahitya. (for Ph.D.)	1,000/-	Books & Journals F.W.
67.	Mrs.Gita Chattopa- dhyaya, Lecturer, Miranda House, Delhi. Delhi University.	Patriotic theme in Bengali Literature.	1,000/-	F.W. Books & Journals.
68.	Shri Mahendra Nath Bairagi, Lecturer, Nabadwip Vidyasagar College, Calcutta University.	Sahitya Somalochak Mohitlal Mazumdar.	2,000/-	Books & Journals.
69.	Dr.PK.Chattopadhyay, Lecturer, Balurghat College, Balurghat. North Bengal Univ.	The Literature of Manik Banerjee in the light of Freudian Psychoanalysis.	2,000/-	F.W. Cont. and Misc.

contd.

1.	2.	3.	4.	5.
70.*	Dr. R.J. Acharya, Lecturer, Kamarpuker College, Hooghly. Burdwan University.	Chaitanya-Parikar Raghunath Das Goswami and his works.	1,000/-	Books.
<u>ORIYA.</u>				
71.	Dr. Barmali Rath, Lecturer, Govt. Eve. College, Berhampur.	The mind, Art and works Vishwanath Kaviraj.	1,000/-	Books and Journals.
<u>FUNJABI.</u>				
72.	Shri S. Gurcharan Singh, Lecturer, Govt. College, Srinagar.	Panjabi Poetry in Jammu & Kashmir.	3,000/-	Books F.W.
<u>TAMIL.</u>				
73.	Shri KN. Chitsabesan, Lecturer, S.N. College, Madurai.	Children's Literature in Tamil.	4,000/-	Books F.W.
<u>URDU.</u>				
74.	Shri Iftikhar Ahmad, Asstt. Professor M.J. College, Jalgaon.	The pupils of Seemaab and their contribution to Urdu Poetry.	3,000/-	Books F.W.
<u>ENGLISH.</u>				
75.	Shri P.V. Narasimham Asstt. Lecturer, P.R.R. & V.S. Govt. College., Vidvalur. Sri Venkateswara University.	Themes and Kinds of Narrative Technique in Modern Novel.	500/-	Books.
76.	Shri S. Krishnamoorthy Aithal, Reader, Regional College of Education, Bhubaneswar. Utkal University.	Theory and practice of Literary Stylistics.	1,500/-	Books F.W.

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1.	2.	3.	4.	5.
77.	Dr. K.G. Desai, Professor School of Psychology and Education, (Gujarat Univ.)	To compare the performance of (i) Urban (ii) Semi-urban (iii) rural, and (iv) Tribal School Children on (a) Cattell's Culture fair intelligence test, (b) Raven's progressive matrices (c) Desai-Bhatt Group Test in Intelligence (Verbal), (d) Bhavsar Non-verbal Test of Intelligence (Verbal and non-verbal) and to find out how for the culture-fair test are fair to different cultures of Gujarat.	3,700/-	F.W. Books & Journals Computation Questionnaire Equipment.
78.	Dr. (Miss) V.B. Mehta, Lecturer, Univ. College of Education, Nagpur Nagpur University.	Identification of High and Low Achievers among student Teachers of B.Ed. College and follow up Programme.	4,000/-	Questionnaire, Test and Postage.
79.	Shri K.S. Rao, Lecturer, A.L. College of Education, Guntur Andhra University.	Study of Self-Perception, Need Achievement and performance of the prospective Secondary School Teachers. (for Ph.D.)	2,350/-	Books Questionnaire F.W.
80.	Sh. DG Pandya, Lecturer, Shri Sarvajanak College of Education, Godhra. Gujarat University.	A study of Effectiveness of Supervision as a Organismk Variables and Professional Equipment of High School Supervisors.	2,500/-	F.W. Books.
81.	Mrs. Meenakshi Chopra, Lecturer, Govt. College for Women, Jammu. Jammu University.	Sex Differences in Social Structure and Dynamics of Educational Institutions at Secondary Level. (for Ph.D.)	1,500/-	Books & Journals... F.W.
82.	Shri G.S. Sharma, Lecturer, N.A.S. College, Meerut. Meerut University.	Attributes of Under Achieving Under-Graduate; students (for Ph.D.)	1,000/-	Books F.W.
83.	Shri S.P. Kaushik Sr. Lecturer NAS College, Meerut (Meerut University)	A study of the Dimensions of Administrative Leadership in Relation to Group Acceptance and some other Educational Aspect in the Colleges of Meerut University (for Ph.D.)	950/-	Printing of tools F.W. Books

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1.	2.	3.	4.	5.
84.	Shri S.B. Mohanty, Lecturer, Govt. Training Coll., Sambalpur. Sambalpur University.	An Investigation into the Position of Science Education in the Primary Schools of Orissa.	4,000/-	Books and Journals Postage F.W.
85.	Shri SS.Pradhan, Lecturer, S.V.M. College, Jagat Singhpur. Utkal University.	Investigation to the system of Administration and supervision in the State of Orissa.	2,000/-	Postage C.W.
86.	Dr.Prem Prakash Shastri, Lecturer, C.R. College of Education, Rohtak.	A comparative study of the professional adjustment of teachers of different categories.	4,000/-	Books Questionnaire C.W.
87.	Shri Sachidananda Medhi, Lecturer, Kokrajhar B.T. College.	An investigation into the probable causes of stagnation and wastage among the pupils of secondary schools, Assam with spl.ref. to the Distt. of Kamrup and remedial measures thereof.	3,000/-	Field work Books and Journals Computation Questionnaire
88.	Shri M.L.Wangoo Lecturer, Vidya Bhavan Teachers' College, Udaipur.	Development of Education in Jammu & Kashmir after independence to the present day ( for Ph.D.)	1,228/-	Field work Books and other charges.
89.	Shri D.K. Sharma, Lecturer, J.V.Jain College Saharanpur.	Education of Technology Mathematics Education- An experimental study of relative effectiveness of expository programmed and guided discovery methods in modern mathematics.	3,000/-	Books Equipment Field work.
90.	Shri J.K. Chand Lecturer, Sambalpur University.	Written English of P.U. students in Sambalpur. An Analysis of error.	700/-	Books and Journals. Questionnaire.

\* Indicates that "college" has not yet been brought within the purview of Section 2(f) of the UGC Act. The grant will be sanctioned to the college as and when it is approved under the above Act. or the University to which the college is affiliated, if it agrees to the terms and condition of award.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 14th July, 1975

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 2nd June, 1975.

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P L A N

S. No.	Subject	No. of instalment	Amount
1.	<u>Agra University</u>		
	Senior/Junior Research Fellowships in Science - payment of Fellowship.		4,800
	<u>Affiliated Colleges</u>		
	Bareilly College, Bareilly.		1,500
	D.E.I. Women's Training College, Dayalbagh.	2nd & final	1,150
	Agra College, A gra.		4,800
	St. John's College, Agra.		3,000
	S.B.J. Degree College, Bisawar.		10,000
	Narain-College, Shikohabad.	-do-	25,000
	R.B.S. College, Agra.	-do-	30,000
	Ganjdundwara College, Ganjdundwara.	-do-	15,000
	D.E.I. Women's Training College, Dayalbagh.	-do-	15,000
	<b>Total:</b>		<b>1,10,250</b>

P.T.O.

2. Aligarh Muslim University

Senior/Junior Research Fellowships in Science - payment of Fellowship.	1,561.29
-do-	1,522.58
-do-	3,716.13
-do-	4,800
-do-	4,800
-do-	1,793.55
-do-	4,800
-do-	3,680.32
-do-	3,741.94
-do-	3,832.26
-do-	4,800
-do-	4,800
-do-	4,800
-do-	4,800
-do-	4,800
-do-	3,038.48
-do-	2,241
Development of Area studies - Centre of West Asian Studies - Release of grant for purchase of furniture - IV Five Year Plan Scheme.	
Award of Scholarship to the students admitted to one year postgraduate diploma course in Computer Science.	25,000
Award of Junior Research Fellowship to Shri S. Aschar Mehdi under area studies programme - Release of grant.	2,000
Requirement of the University arising out of the equipment acquired under U.S.R. Million Dollar Loan Scheme - Air conditioning of 3 rooms of Chemistry Department.	80,000
Construction of Provost House at 375 Engineering Students Hostel.	6,500
Construction of 36 Residential Quarters 4th for Class IV staff of Hospital attached to the Jawaharlal Nehru Medical College.	50,000

Total: 2,27,027.55

3. Allahabad University

Basic Education and Gandhian Techniques of Removing Poverty and Inequalities.	6,180
Junior Research Fellowships in Humanities including Social Sciences/Research Fellowships in - payment of fellowship and contingency grant.	7,874.29

P.T.O.

Allahabad University (Contd.)

Junior Research Fellowships in Science - payment of Fellowship.		1,522.58
-do-		1,716.13
-do-		4,800
-do-		1,638.71
-do-		1,638.71
-do-		3,690.32
-do-		4,800
Writing of University Level books/ monographs.		2,783.33
Purchase of Library books and journals (Humanities) during the plan period - Sanction of grant for.		50,000
Construction of Gandhi Bhavan - Sanction of grant for.		4,950.64
Financial Assistance to Teachers for research/learned work in Sciences - Purchase of Equipment grant (Basic grant) 5th plan period - Sanction of grant for.	2nd & final	1,250
Grant-in-aid for the introduction of M.Tech. course in Applied Physics at J.K. Institute of Applied Physics.		1,80,000
National Associateship -		1,15,590
Construction of Staff Quarters (Class IV) - Sanction of grant for.		903
Construction of two tube wells with overhead tank - Sanction of grant for.		15,000
Purchase of furniture for library and exhaust fans etc. for various Science Departments - Sanction of grant for.		25,000
Purchase of Living Room Furniture for for G.N. Jha Hostel - Sanction of grant for.		1,666.
Rewiring in J.N. Jha Hostel - Sanction of grant for.		5,000
Unassigned grants 1975-76 - Sanction of grant for.		3,000
-do-		20,000
-do-		5,358.53

Affiliated Colleges

Moti Lal Nehru Engineering College, Allahabad.	Research Fellowships in Engineering & Technology - payment of Fellowship.	677.42
Allahabad Agricultural Institute.	Students' Aid Fund in the Colleges - Grant for 1974-75.	762

Total: 4,65,801.66

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4. Andhra University

Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of -	3,000
Purchase of Scientific Equipment during Fourth Plan period for Increase intake into Science Departments.	1,00,000
Increased intake to the Postgraduate Courses in Science Subjects + Payment of Recurring Grant.	2nd 50,000
Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -	7,000
UGC Assistance for the Research Project entitled "Studies on Metal Chelate Compounds and their Solvent Extraction and Catalytic Activity" of Professor V. Pandu Ranga Rao, Head of the Department of Chemistry, Postgraduate Centre - Fifth Five Year Plan period - Release of the 2nd instalment of the grant.	4,800
Programme of Special Assistance to Selected Departments - Payment of 'on account' grant - Regarding Department of Geology.	14,650
Writing of University level books/ monographs.	3,000
-do-	61,32
Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -	400
Research Fellowships in Engineering & Technology - Payment of Fellowship.	4,806.45
-do-	900
-do-	4,372.41
-do-	4,800
-do-	4,800
-do-	4,800
-do-	1,793.55
-do-	5,500
-do-	2,000
-do-	4,800
-do-	4,800
-do-	2,167.14
Writing of University level books/ monographs.	2,000
Seminar on "Problems of Teaching Hindi in South Indian Universities.	final 125

P.T.O.

Andhra University (Contd.)

Affiliated colleges.

P.J.N.N. College of Arts, Commerce and Science, Birur.	Grants towards the loan of books to students - setting up of book banks.	1st	5,625
V.R.S. & Y.R.N. College, Chirala.	Construction of Gymnasium.	2nd	30,000
A.V.R. College, Cudivada.	Development of play fields and purchase of accessories for games and sports.	2nd & final	1,500
Bangaraya Medical College, Kakinagar.	Students' Aid fund in the Colleges - Grant for 1975.		2,750

Total: 2,70,450.87

5. Annamalai University

Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of Fellowship.			4,800
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-do- 3,316.13

Total: 8,116.13

6. A.P.S. University

Affiliated Colleges

Motilal Nehru Law College, Chhatarpur.	Students' Aid Fund in the Colleges-Grant for 1974-75.		210
Government College, Satna.	Grants to College Libraries for loan of Books to Students (Book Banks).	1st	12,000

Total: 12,210

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7. Banaras Hindu University

Financial Assistance to Teachers for research/learned work in Sciences - Payment of Second instalment of grant,	2nd & final	1,000
-do-	2nd & final	1,250
-do-	2nd & final	1,250.
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences /Research Fellowships in Engineering & Technology - payment of contingency grant.		1,500
-do-		1,427.28
-do-		1,461.63
-do-		1,500
Senior/Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of Fellowship.		8,190.32
-do-		1,716.13
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
-do-		1,832.26
-do-		4,800
-do-		4,800
-do-		1,638.71
-do-		7,200
-do-		2,090.32
-do-		5,748.39
-do-		1,716.13
-do-		4,800
-do-		4,800
-do-		410
-do-		4,758.06
-do-		900
-do-		750
-do-		4,800
-do-		900
-do-		4,919.35
-do-		4,800
-do-		4,800
-do-		4,800
-do-		1,729.03
- Writing of university level books/ monographs.		3,000

Banaras Hindu University (Contd.)

Consolidation and Development of the Department of Civil Electrical and Mechanical Engineering - Purchase of equipment.	11th	13,000
Visit of Dr. Prabhakar Tiwari Reader in Applied Physics to U.K. under the programme of Exchange of visits by Younger Scientists between India and U.K. during 1974-75.		8,619
Programme of Special Assistance to Selected Departments - Department of Zoology.		60,859
Writing of University level books/ monographs.		2,000
Purchase of equipment including books under the scheme - Expansion of Training Capacity for the College of Engineering.	10th & final	2,000
Construction of building for the Department of Electronics Engineering.	5th	20,000
Programme of Special Assistance to Selected Department - Department of Botany - Additions and Alterations in the existing laboratories.		40,000
Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of -		1,000
Basic grant for purchase of equipment - 5th Plan period.		3,50,000
Provision of Exhaust Fans in various Dining Halls of the kitchen blocks of the Hostels under Students Amenities programme.	3rd	20,000
Basic grant for purchase of books and journals - 5th plan period .		1,75,000
Construction of Radio Lectop Laboratory Building for the Department of Zoology under US Million Dollar Loan Scheme.		15,000
Additions and Alterations in the Kitchen Block of Department Hostel under Students Amenities Programme.		11,000
Extension to International Hostel building under Students Amenities Programme - Grant for furniture.	1st	5,000
Additions and alterations in Dining Halls and Kitchen Block of Buiya Hostel under Students Amenities Programme.	1st	75,000

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Banaras Hindu University (Contd.)

Construction of Teachers Hostel consisting of 48 quarters.	6th	1,20,000
Construction of OPD Building for S.S. Hospital attached to Institute of Medical Sciences.		
Construction for mens Hostel for 24 students - Women's Hostel for 12 students for Rural Health Centre of the Institute of Medical Sciences.	7th	5,000
Construction of 550 bedded hospital attached to the Institute of Medical Sciences - Phase III Construction of X-Ray Block, Laboratory and Theatre Block.	1st	4,00,000
Construction of Reading Room, Common Room at the first floor of Dhanwantari Hostel under Students Amenities Programme.	1st	25,000
Purchase of furniture for Dalmia Hostel under Students Amenities Programme.		12,000
Construction of Animal House for the Institute of Medical Sciences.	7th	30,000

Affiliated Colleges

Vasanta College for Women, Rajghat Fort, Varanasi.	Grant towards the loan of books to students - setting of Book Banks.	1st	5,625
<b>Total:</b>			<b>15,15,390.61</b>

8. Bangalore University

Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of,		7,000
UGC Assistance for the Research Project entitled "Mössbauer Effect Study of Binary alloys" of Dr. N.G. Puttaswamy, Department of Physics Fifth Five Year Plan period - Release of the 2nd instalment of grant (NR) for equipment.		1,50,000
Financial Assistance to Teachers for Research/learned work in Sciences.	2nd & final	500



Bangalore University (Contd.)

Affiliated Colleges

B.M.S. College of Law, Bangalore.	Students Aid Fund in the Colleges for the year 1974-75.		811
The National College Basavangudi, Bangalore-4.	Grants towards the loan of books to students - setting up of book banks.	1st	8,500

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Total: 1,66,811

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9. Berhampur University

National Associateship - Dr. L. Satapathy, Department of Physics			1,000
UGC Assistance to the Research Project entitled "Redox Reaction with Ferricyanide" of Prof. R.S. Radhakrishnamurti, Head of the Department of Chemistry - Fifth Five Year Plan period - Release of grant.			4,800

Affiliated Colleges

M.K.C.G. Medical - College, Berhampur.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	750
-do-	-do-	2nd & final	500
Vikram Deb College, Kavpore.	Grant-in-aid for the construction of Non-Resident Students Centre.	1st	30,000
Khallikota College, Khallikota. (Ganjam).	Grant-in-aid towards the construction of 6 staff quarters.	1st	1,00,000
Ganjam College, Ganjam.	Grant-in-aid for the construction of Non-resident students centre.	4th & final	7,000

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Total: 1,44,050

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10. Bhopalpur University

Grant-in-aid for the purchase of Equipment for Postgraduate Science Departments - Basic grant - 5th Plan.		1,00,000
Senior/Junior Reasearch Fellowships in Science - payment of Fellowship.		1,922.58
Allocation of unassigned grant for 1973-74.	1st	20,000

Affilliated Colleges

Koshi Collogo, Khagaria, Monshvr.	Grants to affilliated collges for laboratory equipment on 100% basis.	2nd & final	1,300
T.N.B. College, Bhagalpur.	College Humanities and Social Sciences Development Programme - Payment of grant.	1st	15,000
S.P. College, Dumka.	Grants to college libraries for loan of books to students (Book Banks) during fifth plan.	1st	8,000
Total:			1,46,222.58

11, Bhopal University

Affilliated Colleges

M.A. College of Technology, Bhopal.	Senior/Junior Research Fellowships in Science Payment of Fellowship.		4,800
Govt. College, Ganj-Basoda.	Students' Aid Fund in the Colleges-Grant for 1974-75.		400
Govt. College, Schorc.	-do-		603
Motilal Vigyan Mahavidyalaya, Bhopal.	Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of -		6,000
Maulana Azad College of Technology, Bhopal.	All India Youth Festival "Spirit 75" at Maulana Azad College of Technology, during 1975.		5,000

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Bhopal University (Contd.)

Affiliated Colleges

S.S.L. Jain College, Vidisha.	Development of P.G. STUDIES in Science - subjects during IV Plan - Purchase of Laboratory Equipment and books and journals - sanction of grant for the.	4th & final.	3,822.65
Total:			20,625.65

12. Bihar University

Affiliated Colleges

I.N. Dubey College, Motihari (East Champaran) Bihar.	Students' Aid Fund in the colleges - Sanction of grant for the year 1974-75 - regarding.		1,000
S.R.K. Goenka College, Sitamarhi. (Muzaffarpur).	-do-	1st	6,000
Muzaffarpur Institute of Technology, Muzzafpur.	-do-		1,276
L.N.C. College, Motihari.	Construction of Library Building.	2nd	45,000
Total:			53,276

13. Bombay University

Allocation of unassigned grant during the 5th Five Year Plan Period - 1974-75.		final.	4,000
National Associateship.			1,000
Writing of University level Books/Monographs.			1,831.09
Basic grant for the purchase of Scientific Equipment during the 5th Five Year Plan Period.			1,20,000
Junior Research Fellowships in Humanities including Social Sciences -			2,000
-do-			4,800

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Bombay University (Contd.)

Affiliated Colleges

Ram Sarain Dala College, Bombay.	Development of Postgraduate Studies in Science subjects during the IV Plan - Depart- ments of Physics, Chemistry, Botany and Zoology - sanction of Non-Recurring grants for.	final	20,803.47
Ramnarain Ruia College, Bombay.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	250
-do-	-do-	2nd & final	250
Sardar Patel College of Engineering, Khandheri, Bombay.	Students' Aid Fund in the Colleges - Grant for 1974-75.		2,250
St. Xavier's College Mapsa. (Gua).	-do-		2,250
<b>Total:</b>			<b>1,59,434.56</b>

14. Burdwan University

Junior Research Fellowships in Sciences - payment of Fellowship.		4,800
-do-		1,870.97
Unassigned grant - 1974-75	2nd	6,000
Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -		1,230.19
Grant-in-aid towards the construction of Staff quarters.	5th & final	7,617
Grant-in-aid for the purchase of library books and journals - 5th Plan Basic grant.	2nd & final	1,00,000

Affiliated Colleges

Guskara Mahavidyalaya, Guskara, Distt. Burdwan.	Grants to College Libraries for loan of books to students (Book Banks) during Fifth Plan.	1st	11,000
Bankura Sammilani College, Bankuru.	-do-	1st	14,000
Banwarilal Bhaletia College, Sanzol.	-do-	1st	11,000

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Burdwan University (Contd.)

Affiliated Colleges

Chandsnapore College, Chandenagore.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	750
Vivckandna Mahavidya- laya, Burdwan.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - regarding.		3,250
Saldiha College, P.O. Saldiha, Distt. Bankura, Burdwan.	-do-		2,250
Katwa College, Katwa, Distt. Burdwan.	-do-		2,964
Panchaura Mahavidya- laya, P.O. Panchmura, Distt. Bankura.	-do-		6,000
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Total:			1,72,732.16
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15. Calcutta University

UGC Assistance for the Research Project entitled "Apodisation and Optical Filtering in Partially Coherent Light" of Prof. M. De, Head of the Department of Applied Physics, Fifth Plan period.		18,500
Research Fellowships in Engineering and Technology - payment of Fellowship.		333.33
-do-		1,793.55
-do-		2,373.33
-do-		1,896.37
-do-		1,793.55
-do-		1,612.90
-do-		4,800
-do-		2,000
-do-		2,790.32
-do-		1,716.13
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
-do-		4,800
Senior Research Fellowships in Humanities - Extension in Fellowship tenure - payment of fellowship to -		7,200

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Calcutta University (Contd.)

Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	2,000
-do-	2nd & final	1,000

Affiliated Colleges

Raja Krishnath College of Commerce, Berhampur.	Students' Aid Fund in the Colleges-Sanction of grant for the year 1974-75 - regarding.		2,707
Ram Saday College, Amta, Howrah.	-do-		624
Narajole Raj College, P.O. Narajole, Distt. Midnapore.	-do-		560
Kharagpur College, Kharagpur, Distt. Midnapore.	-do-		2,750
S.C. College of Commerce, Babra, P.O. Mabra, Prafullanagar, Distt. 24-Parganas.	-do-		1,750
Girls College, 5/3, Mahatma Gandhi Road, Howrah.	-do-		3,891
Mahadevananda Maha- vidyalaya, Manirampur, P.O. Barrackpore, Distt. 24-Parganas.	-do-		1,125
Ramakrishna Mission Residential College, P.O. Narendrapur, 24-Parganas.	-do-		6,000
Ranaghat College, Ranaghat.	Grants to College Libraries for loan of books to students (book-bank) during Fifth Plan.	1st	14,000
Sunderban Razi Dessart College, P.O. Pathankhali, 24-Parganas.	-do-	1st	6,000
Ramakrishna Mission Vidyamandira, P.O. Blur Nath, Distt. Howrah.	-do-	1st	6,000

P.T.O.

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Calcutta University (Contd.)

Affiliated Colleges

Binakrushna College, North Balasore, at-Bhansimulla, P.O. Sugo (Distt., Balasore).	Grants to College Libraries for loan of books to Students. (Book Bank) during Fifth Plan.	1st	6,000
Bangabasi Evening College, Calcutta.	-do-	2nd & final	5,500
Bangabasi Morning College, Calcutta.	-do-	2nd & final	4,750
Scotish Church College, * & %, Urguharat Square, Calcutta-6.	-do-	1st	16,000
Ramakrishna Sarada Mission Vivekananda Vidya Bhawan, 33, Nayapatty Road, Dum Dum, Calcutta-66.	-do-	1st	6,000
Loroto College, 8, Middleton Row, Calcutta.	-do-	1st	6,000
Taki Government College, P.O. Talki, Distt. 24-Parganas.	-do-	1st	6,000
Jogmayadavi College, 92, Shyamaprasad Mookerjee Road, Calcutta-26.	-do-	1st	14,000
Sabang Sajanikanta Mahavidyalaya, Village-Tamathani, P.O. Lutunia, Distt. Midnapore.	-do-	1st	6,000
Santipur College, Nadia.	-do-	1st	11,000
Sunderban Mahavidyalaya, P.O. Kakdwip, 24-Paraganas.	-do-	1st	6,000
Jagamaya Deve College, Calcutta.	Utilisation of Services of Outstanding Retired Teachers-Payment of grant in respect of -		6,000
Brec Chaltanya College, Mabra, P.O. Habra, Pr. Fullanagar, 24-Parganas.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	1,000

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Calcutta University (Contd.)

Affiliated Colleges

D. S. S. College, 5, Lal Lajpatrai Sarani, Calcutta.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	500
Sree Chaitanya College, Habra, P.O. Habra, Prafullanagar, 24-Parganas.	-do-	2nd & final	1,000
Women's College, 204, Bidhan Sarani, Calcutta-6.	-do-	2nd	75,000
Ramakrishna Mission Vidyamandir, P.O. Belur Math, Distt. Howrah.	-do-	2nd	80,000
Rammohan College, 102/1, Raja Rammohan Sarani, Calcutta-9.	Grant-aid for the purchase of laboratory equipment.	2nd & final	1,250
Presidency College, Calcutta.	Senior Research Fellowships in Science - payment of Fellowship.		2,806.45
-do-	-do-		3,000
Egra Sarada Shasti Bhusan College, P.O. Egra, Distt. Midnapore, (WB)	Grant-in-aid for the construction of additional teaching accommodation.	2nd	1,00,000
Bankim Sardar College, P.O. Twangrabhali, Distt. 24-Parganas.	Establishment of Text Book Library in College.	final	3,420.50
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Total:			4,80,448.43

16. Calicut University

Unassigned Grant for the year 1974-75 - Release of 2nd and final instalment of 'on account' grants.	2nd & final	15,000
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Affiliated Colleges

Guruvayurappan College, Calicut-14.	College Humanities progra- mme and Social Sciences Development Programme - Pay- ment of grant.	1st	10,000
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P.T.O.



Calicut University (Contd.)

<u>Affiliated Colleges</u>		1975-76	1976-77
Vimla College, Trichur.	Recurring Expenditure - College Health Centre.	1st & final	4,700
Calicut Regional Engineering College, Calicut.	Students' Aid Fund in the Colleges-Grant for 1975.	1st	2,250
Farook Training College, P.O. Farook (Calicut).	Development of Teachers Training Programmes in Teachers Training Colleges - Special Grant for the purchase of books and journals.	final	342.69
Vimla College, Trichur.	Development of play fields and purchase of accessories for 3 games and sports.	2nd & final	1,012
Milagalgiri College, Miramalagiri, Tallicherry.	Grants towards the loan of books to students -	1st	5,000
Payyanur College, Payyanur.	Setting up of Book Banks. -do-	1st	5,000
<b>Total:</b>			<b>43,304.69</b>

17. Delhi University

Area studies programme - Award of junior-research fellowship to -			2,000
Teaching of course in Marathi and Gujarati.	final		9,277
UGC assistance Research Project entitled "Hormonal Regulation of Implementation with Particular Reference to the Action of Estrogen and Progesterone on Nucleic Acid and Protein Synthesis in the Uterus and Blastocystes" of Professor M.R.N. Prasad, Head of the Department of Zoology, - Release of the 7th instalment of grants.			30,000
Scheme for Extension facilities in Physics and Chemistry Depart- ments for increase in the intake of students for B.Sc.(Hons.) Course.	final		2,854.69

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Delhi University (Contd.)

Payment of recurring grant during 1961-62 towards salary of the additional staff appointed in various Science Departments during the II Five Year Plan.	final	11,541.90
University College of Medical Sciences - Maintenance grant for 1975-76 - Payment of -	2nd	2,10,000
Organisation of a Seminar by Young Physicists Association during summer 1975.		7,000
Centre of Advanced Study in Sociology		1,300
Award of Rational Scholarships for the year 1974-75.		
Writing of university level books/monographs.		3,000
Payment of grant to Mr. E.V. Stoyanov under Indo-Bulgarian Cultural Exchange Programme.		6,128.74
Senior Research Fellowships in Humanities including Social Sciences/Research Fellowships in Engineering and Technology -		220-
Payment of Fellowship.		
Junior Research Fellowships in Sciences - payment of Fellowship.		6,000
Junior Research Fellowships in Humanities including Social Sciences/Research - payment of fellowship and contingency grant:		5,900
Junior Research Fellowships in Humanities including Social Sciences. - payment of Fellowship.		3,716.13
-do-		3,729.03
-do-		4,800
-do-		1,741.94
-do-		7,200
-do-		4,800
-do-		4,800
-do-		4,800
Birth Centenary of Late Dr Shyam Sunder Dass - Organisation of two Seminars - regarding.		5,000
Writing of university level books/monographs.		2,650
Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -		7,000
-do-		7,000

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Delhi University (Contd.)

Affiliated Colleges

Atma Ram Sanatam Bharom College, Dhauli Kuan, New Delhi.	College Affiliated to Delhi University - Establishment of Students Aid Fund - Payment of grant for 1974-75.		3,750
Swami Shardanand College, Alipur, Delhi.	Organisation of Workshop in Environmental Education for Asian Youth during May 1975.		5,000
Bharati Mahila College, Karol Bagh, Link Road, New Delhi.	Maintenance grant for 1975-76 - Payment of	2nd	50,000
Miranda House, Patel Chest Marg, Delhi.	Construction of Teachers Hostel.		20,000
-do-	Construction of Library Building.		20,000
Kamala Nehru College Panchshila Park Marg, New Delhi.	Construction of college building.		40,000
Shyam Lal College, Shahdara, Delhi.	College affiliated to - Establishment of students Aid Fund - Payment of grant for 1974-75.		3,250
Ramlal Anand College (Day classes), Anand Niketan Marg, New Delhi.	Construction of class rooms, staff rooms, common room and library block.		75,000
Hastinapur College, Mati Bagh, New Delhi.	Financial Assistance to Teachers for research/ learned work in Sciences and Humanities including Social Sciences -	2nd & final	1,000
Delhi College, Ajmeri Gate, Delhi.	Writing of university level books/monographs.		1,000
Vivekananda Mahila College, Gandhi Nagar, New Delhi.	Purchase of a calculating machine.		85.75
Ramjas College, Delhi.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	600
-do-	-do-	2nd & final	600
St. Stephen's College, Delhi-7.	Grant for Hiking Club for an expedition to the Satopanth Glacier in the Alaknanda Valley in Garhwa-1 in Summer 1975.		2,470.07

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Delhi University (Contd.)

Affiliated Colleges

Shivaji College, Karampura, New Delhi.	Construction of College Buildings.	50,000
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Total:	6,25,215.25
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18. Dibrugarh University

Affiliated Colleges

Debraj Roy College, Golaghat.	Grants to College Libraries 1st for loan of books to students (Book Bank) during Fifth Plan.	6,000
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Dibrugarh P.S. Kanoi Commerce College, Dibrugarh.	-do- 1st	5,000
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Gargaon College, P.O. and T.O. Simaluguri, Distt. Sibsagar.	-do- 1st	6,000
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North Bank College, P.O. Ghilamara, Distt. Lakhimpur.	-do- 1st	147
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Moran College, P.O. Moranhat, Assam.	-do-	750
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Total:	17,897
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19. Gauhati University

Award of Scholarships for post-graduate studies in Sciences and Humanities including Social Sciences to the students belonging to the Hill Areas to North Eastern Region of India during 1974-75.	1,900
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Award of scholarship for P.G. studies	-do- 1,900
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-do-	1,900
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Gauhati University (Contd.)

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Junior Research Fellowship in Humanities including Social Sciences - payment of fellowship.		2,503.23
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Affiliated Colleges

Mongalalai College, Mongalalai, Distt. Darrang.	Financial Assistance to Teachers for research/learned work in sciences.	2nd & final	1,500
-do-	Students Grants to College Libraries for loan of books to students (Book Bank) during Fifth Plan.	1st	8,000
Goalpara College, Goalpara.	-do-	1st	6,000
Gauhati College, Gauhati.	-do-	1st	6,000
Moirang College, Moirang, Manipur.	Construction of Additional teaching accommodation.	3rd	25,000
Nowgong College, Nowgong.	Construction of Men's Hostel - release of final instalment of grant thereof.	4th & final	15,055
Gauhati Commerce College, Gauhati.	Students' Aid Fund in the colleges - Sanction of grant for the year 1974-75 - regarding.		1,425

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Total: 71,183.23

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20. Garhwal University

Affiliated Colleges

Mahadevi Kanya Pathshala College, Dehradun.	Students' Aid Fund in the Colleges-Grant for 1974-75.		2,750
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Total: 2,750

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21. Gorakhpur University

U.G.C. Assistance for the Research Project entitled "Shock Waves in a Dusty Medium" of Dr. O.S. Srivastava, Department of Mathematics - Fifth Five Year Plan Period - Release of 2nd instalment of 'on account' grant.	4,800
Senior Research Fellowships in Sciences - payment of fellowship and contingency grant.	8,600
-do-	4,800

Affiliated Colleges

Swami Devanand Degree College, Mathlar.	Students Aid Fund in the Colleges-Grant for 1974-75.		1,000
Filakdhari College, Jampur.	-do-		4,191
Shibli National College, Azamgarh.	-do-		3,750
Shivapati Degree College, Shohratgarh (Basti).	-do-		1,750
K.B. Degree College, Mirzapur.	-do-		3,750
Hindu Degree College, Zamania (Ghazipur).	-do-		1,000
Saba Raghava Das Bhagwan Das Degree College, Ashram Bernuj, Dorria.	Grant towards to loan of books to students - Setting up of Book Bank.	1st	6,625
B.N.K.B. Degree College, Akbarpur.	Construction of Library Building.	6th	5,000
Total:			45,266

22. Gujarat University

Work Meet for field study projects College and Community work.		4,000
Construction of Women's Block - Sanction of grant for.		
Construction of Gymnasium.	2nd	25,000
Construction of Service Centre - Sanction of grant for.		

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Gujarat University (Contd.)

Proposal of the Gujarat University for starting a P.G. Centre in Space Science - Sanction of grant for.		34,000
Construction of Service Centre - Sanction of grant for.		4,000
Construction of Men's Hostel - Sanction of grant for.		30,000

Affiliated Colleges

Shree Lunawada Arts & Science College, Lunawada, Distt. Panchmahals.	Grants to College Libraries for loan of books to Students. (Book Banks).	1st	8,000
Sheth Shri C.M. Commerce College, Visnagar.	-do-	1st	6,000
Shri B.K. Parikh Arts and Shri M.K. Patel Commerce College, Petlad.	-do-	1st	8,000
H.C. Bodiwala Commerce College, Ahmedabad.	Purchase of Library Books during IVth Plan.	final	5,000
Secondary Teachers Training College, Rarkhej Road, Ahmedabad.	Grants to affiliated colleges for the purchase of Dater - Cooler.	final	316.54
H.A. College of Commerce, Ellis Bridge, Ahmedabad.	Construction of Additional Teaching Accommodation.	3rd	15,000
Gujarat College, Ahmedabad.	Construction of Tube Well and Over-head Tank.	1st	75,000
Vivekanand College, Ahmedabad.	Development of play field and Purchase of accessories for games and sports.	2nd & final	1,500
Shah C.K. Municipal Commerce College, Kalol.	Purchase of Chalk Boards.	1st & final	1,641.91
Sheth P.T. Arts and Science College, Godhra.	Students Aid Fund in the Colleges-Grant for 1974-75.		1,000
C.U. Shah Commerce College, Ashram Road, Ahmedabad.	-do-		3,750

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Gujarat University (Contd.)

Affiliated Colleges

Sheth S.V. Arts and Commerce College, Mandvi (Kuch).	Students' Aid Fund in the Colleges-Grant for 1974-75.	237
Seth H.P. Arts and T.S.M. Commerce College, Tod.	-do-	1,639
Smt. S.B.L. Municipal Medical College, Ahmedabad.	-do-	639
Law College, Darwaja, Ahmedabad.	-do-	2,380
	Total:	1,27,103.45

23. GB Pant University of Agriculture & Technology

Senior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellowships in Engineering and Technology:- payment of Fellowships.		2,109.68
	-do-	4,800
	-do-	3,120
	Total:	10,029.68

24. Guru Nanak University

A Seminar on Approaches to the Study of Literature.		5,467
Establishment of Study Centre at Jullundur.		463

Affiliated Colleges

Radha Prishan Arya College, Nanhanshahr Doaba (Jullundur).	Grant towards the loan of books to students-Setting up of Book Bank.	1st	8,437
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Guru Nanak University (Contd.)

Affiliated Colleges

Guru Nanak Prem Karamsar College, Dadala, (Kapurthala).	Grant towards the loan of books to students-Setting up of Book Bank.	1st	5,625
Phagwara College for Women, Phagwara (Kapurthala).	-do-	1st	6,625
Sikh National College, Charan Kanwal - Banga (Jullundur).	-do-	1st	5,625
Lyallpur Khalsa College for Women, Jullundur.	-do-	1st	5,625
Dayanand College, DA.V. College, Jullundur.	-do-		35,000
Total:			62,867

25. Har yana Agricultural University

Dymposium on "Food Self Sufficiency under Constraints".	3,600
Writing of university level books/monographs.	4,483.33

Affiliated Colleges

College of Basic Sciences & Humanities, Hissar.	Junior Research Fellowships in science - payment of Fellowship.	4,800
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Total: 12,883.23

26. Himachal Pradesh University

Establishment of Study Centre	9,000
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Total: 9,000

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27. University of Indore.

UGC Assistance for the Research Project entitled "Phytochrome and Photomorphogenic Reactions in the Control of Photomorphogenesis in Plants" of Dr. M.M. Laloraya, Head of the Life Sciences Department, Fifth Five Year Plan period - Transfer of the research project from Gujarat University to University of Indore University and release of the 1st instalment of 'on account' of grant.	3,000
Basic grant for the purchase of scientific equipment during the 5th Five Year Plan Period.	1,00,000

Affiliated Colleges

Devi Ahilya Girls Degree College, Indore.	Grants to College Libraries 1st for loan of books to students (Book Banks).	6,000
Government Girls Postgraduate College, Moti Tabola, Indore.	Construction of 1 Teaching accommodation - sanction of grant for the -	23,000
Government Arts & Commerce College, Indore.	Junior Research Fellowships in Humanities including Social Sciences - payment of Fellowship.	2,000

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Total: . 1,34,000

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28. Jabalpur University

Junior Research Fellowships in Humanities including Social Sciences - payment of fellowship.	3,729.03
-do-	2,109.68
-do-	1,793.55

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Total: 7,632.26

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29. Jadavpur University

00,20,1	Senior/Junior Research Fellowships in Science/Humanities including Social Science including Research Fellowships, in Engineering and Technology - payment of fellowship.		4,800
	-do-		2,187.10
	Writing of University level books/monographs.		1,000
	Extension to Pharmacy Building (Eastern Wing) 4th floor - Payment of grant for.	1st	50,000
	Development of Area Studies Programme during V Plan Period - Purchase of books and journals.	1st	10,000
		<b>Total:</b>	<b>67,987.10</b>

30. Jammu University

Senior/Junior Research Fellowships in Science - payment of fellowship.	4,800	
	<b>Total:</b>	<b>4,800</b>

31. Jawaharlal Nehru University-

Purchase of Motor Cycle for Despatch Rider of -	5,983.22
Junior Research Fellowships in Sciences/Humanities including Social Sciences - payment of contingency grant.	1,500
-do-	1,480.60
Junior Research Fellowships in Sciences - payment of fellowship.	4,800
-do-	4,800
-do-	1,793.55
-do-	6,600
-do-	4,800
-do-	4,800
-do-	4,800
-do-	1,819.35

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Jawaharlal Nehru University (Contd.)

Provision of furniture for living room, dining hall and common room for 600 students of 3 Hostel Blocks in Sec. I of the -	3rd & final	1,25,000
Development of site for sector 1, 13 & 14 recreational area, Guest House, Married Research Scholars Hostel and A, B & C Type quarters in the JNU Campus.	3rd	50,000
Development of site for sectors 1, 13 & 14 reconstructional area, Guest House, Married Research Scholars Hostel and A, B & C Type quarters in the JNU Campus.	1st	10,00,000
Setting up of the laboratory in the University's Centre of Post-Graduate Studies at Imphal - Purchase of Books and Journals.	4th	1,50,000
Construction of 3 hostel blocks for 600 students and 12 warden quarters and 72 quarters for faculty staff and Cafeteria in Sec. IV of JNU Campus.	16th	5,00,000
Development of site for sectors, 1, 13 & 14 recreational area, Guest House, Married Research Scholars Hostel & A, B & C Type quarters in the JNU Campus.	3rd	50,000
-do-	1st	10,00,000
Construction of 32 B & C Type quarters in the JNU Campus.	5th	5,00,000
Construction of school building in JNU Campus.	6th	3,00,000
Award of teacher fellowship under the area studies programme - Dr. V. Suryanarayana.		12,000
Purchase of a Jeep in Engineering Department of JNU.	1st	37,000
Setting of the laboratory in the University's Centre of Postgraduate Studies at Imphal - Purchase of Books and Journals.	4th	1,50,000
Construction of 3 Hostel Bloks for 600 students in Sector 1 of the JNU Campus.	8th	5,00,000
Fourth Plan Development Schemes - Release of grant for the Field Work.	final	5,588.75

P.T.O.

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Jawaharlal Nehru University (Contd.)

00),	Establishment of Students' Aid Fund in the Universities - 1973-74.		7,441.73
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Total:	42,30,207.20
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32. Jiwai University

Affiliated Colleges

Government College, Morar.	Grants to College Libraries for loan of Books to Students (Book Banks).	1st	8,000
Government College, Shivapuri.	Grant to colleges under Students Welfare Programme.	2nd & final	5,182.44

Total:	13,182.44
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33. Jodhpur University

UGC Assistance for the Research Project entitled "Kinetics of Oxidations by Metal Ions" of Professor R.C. Kapoor, Head of the Department of Chemistry - Fifth Five Year Plan Period - Approval for the appointment of Junior Research Fellowships and release of the 2nd instalment of grant.		5,000
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	500
-do-	2nd & final	500
Junior Research Fellowships in Fellowships in Science/Humanities including Social Sciences - payment of fellowship.		1,638.71
-do-		3,341.94
-do-		1,716.13
-do-		4,800

Total:	17,496.78
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34. Kalyani University

Construction of Gymnasium.	4th	25,000
Financial Assistance to Teachers for research/learned work in -- Sciences.	2nd & final	750
-do-	2nd & final	750
-do-	2nd & final	2,000
Senior Research Fellowships in Sciences - payment of fellowship and contingency grant.		2,329.03
-do-		2,386.87
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	Total:	<hr/> 33,215.90 <hr/>

35. Kanpur University

Affiliated Colleges

H.B. Technological Institute, Kanpur.	Research Fellowships in Engineering and Technology - payment of fellowship.	700
Y.P. College, Lakhimpur, Khari.	Students' Aid Fund in the Colleges-Grant for 1974-75.	3,250
Vehru College, Chhibraman (Farrukhabad).	-do-	1,332
Bhagwan Din Arya Kanya Degree College, Lakhimpur Khari.	-do-	750
UP Institute of Agricultural Sciences, Kanpur-6.	-do-	602
Badri Vishal College, Farrukhabad.	-do-	1,750
Kawaharlal Nehru Medical Degree College, Barabanki.	-do-	6,000
V.S.S.B. College, Kanpur.	Junior Research Fellowships - payment of contingency grant.	1,496.97

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Kanpur University (Contd.)

Affiliated Colleges

V.S.S.B. College, Kanpur.	Junior Research Fellowships in Science/payment of fellowship.		1,793.55
H.R. Technological Institute, Kanpur.	-do-		700
Hindu Kanya Mahavidyalaya, Sitapur.	Construction of Library Building including furniture.	6th	5,000
Christ Church College, Kanpur.	Development of Postgraduate studies in Science - Mathematics.	4th & final	1,189.14
Total:			37,563.66

36. Karnatak University

Junior Research Fellowships in Science-payment of Fellowship.		4,800
-do-		4,800
-do-		4,800
Utilisation of Services of Outstanding Retired Teachers- payment of grant in respect of Payment of salaries to 4th Plan additional staff for Science Departments.	10th	35,000

Affiliated Colleges

S.B. College of Arts, Gulbarga.	Setting up of Book Bank.	last	2,750
Kittel College, Dharwar.	Grant towards the loan of books to students-setting up of Book Banks.	1st	5,625
S.B. College of Science, Gulbarga.	-do-	1st	5,625
Gudleppa Hallikeri College, Havdri, P.O. Kaveri. (Distt. Dharwar).	-do-	1st	5,625
Govind Ram Saksaria Science College, Belgaum.	Establishment of Book Bank.	last	3,000
K.R.C.E.'s Arts and Science College, Bailhongal (Distt. Belgaum).	-do-	final	3,250

P.T.O.

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Karnatak University (Contd.)

Affiliated Colleges

B.V.V. Sangh's Basaveshwar Commerce College, B.G.N. Kot (Bijapur).	Grants towards the loan of books to students - Setting up of book banks.	1st	5,625
A.S.S. College of Commerce, Gadag.	-do-	1st	5,625
M.C.V.C. Arts College, Mudorbihal (Distt. Bijapur).	-do-		618
S.S. Khuba's Basaveshwar College of Arts and Science, Basavakalwan (Bidar (Distt.))	Students Aid Fund to colleges for the year 1974-75.		750

Total: 94,893

37. Kashmir University

Senior/Junior Research Fellowships in Science/Humanities including social Sciences/Research Fellowships in Engineering and Technology - payment of Fellowship.			1,832.26
-do-			4,800

Affiliated Colleges

Govt. College, Sopore (Kashmir).	Grant towards the loan of books to students - Setting up of Book Banks.	1st	8,437
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Total: 15,069.26

38. University of Kerala

Writing of University level books/ monographs.			2,274.15
Senior/Junior Research Fellowships in Science - payment of Fellowship.			4,800
-do-			4,800

P.T.O.



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Kerala University (Contd.)

Affiliated Colleges

Union Christian College, Alwaye.	Grants to colleges libraries for loan of Books to students (Book Bank).	2nd & final	3,000
Loyala College of Social Sciences, Arreckaryam, P.O. Trivandrum-17.	Writing of University level books/monographs.		3,000
Baselius College, Kottiyam.	Construction of Lecture Theatres and Class rooms.	1st	50,000
Vimla College, Trichur.	Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of:-		981.20
N.S.S. College for Women, Neeramankare, Trivandrum.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,458
University College, Trivandrum.	-do-		1,576
Loyala College of Social Sciences, Trivandrum-17.	National-Service Scheme		15,000
College for Women, Trivandrum.	Grants towards the loan of books to students - Setting up of Book Banks.	1st	14,000
Roxman College, Thodrumpusha East.	-do-	1st	8,000
N.S.S. Hindu College, Trivandrum.	-do-	1st	11,250
St. Thomas College, Ranni, Pazhavangodi, P.O. Kerala.	-do-	1st	5,000
N.S.S. College, silcnal.	-do-	1st	8,000
Bishop Moore College, Havelikara.	-do-	1st	8,000
All Saints' College, Trivandrum.	-do-	1st	8,000

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Total: 1,49,139.39

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39. Kumaon University

Affiliated College

Outstanding Retired Teachers Grant. 6,000

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Total: 6,000

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P.T.O.

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40. Kurukshetra University

Basic grant for purchase of Library		1,00,000
& Books and journals during Vth Plan.		
Junior Research Fellowships in		2,787.10
science-payment of Fellowship.		
do		4,800
do		2,148.39
Seminar on the structure of Verbal		1,396.40
Construction in Indo-Aryen.		

affiliated colleges

Arya Girls College, Ambala Cantt.	Grant towards the loan of books to students-	1st	5,625
Government College; Kalka.	Setting up of Book Banks.	-do-	1st
G.M.N. College, Ambala Cantt.		-do-	1st
S.D. College, Palwal.		-do-	1st
D.A.V. College, Sadhara.		-do-	1st
Kurukshetra University Evening		-do-	1st
College, Rohtak.		-do-	1st
Manohar Memorial College, Fathabad.		-do-	1st
F.C. College for Women, Hissar.		-do-	1st
G.M.N. College, Ambala Cantt.	Establishment of Book Bank	2nd & final	2,957.70
Haryana War Hero's Memorial College, Gohana.		-do-	1st
University College of Education, Kurukshetra.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,000
Kirorimal College of Education, Bhiwani.		-do-	750
Hindu College, Sonapat.		-do-	2nd & final
			4,688
			<hr/>
	Total:		1,72,965.59
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41. Lucknow University

Construction of 50 Women's Hostel - Sanction of grant for.		1,50,000
Construction of Extension Geology Department Building - Sanction of grant for.		10,000
Junior Research Fellowships in Sciences - payment of contingency grant.		1,084
	-do-	1,074
	-do-	1,250
	-do-	1,250
	-do-	1,500
	-do-	4,800
	-do-	1,948.39
	-do-	4,800
	-do-	2,574.19
	-do-	4,331.03
	-do-	1,974.19
	-do-	3,806.45
	-do-	3,729.03
	-do-	3,600.32
	-do-	4,800
	-do-	1,870.97
	-do-	1,932.26
	-do-	1,716.13

Affiliated Colleges

Lucknow Christian College, Lucknow.	Grants towards the loan of books to students - Setting up of Book Bank.	1st	8,437
Shia Degree College Lucknow.	Students' Aid Fund in the Colleges - Grant for 1974-75.		3,454

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Total: 2,19,931.96

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42. Madras University

Seminar on Indian Writing in English.		4,634.20
Summer School in Linguistics under Joint Collaboration of Madras University and Central Institute of Indian Languages, Mysore.		20,000

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Madras University (Contd.)

Summer School in Linguistics under Joint Collaboration of Madras University and Central Institute of Indian Languages, Mysore - Sanction of Additional amount for Water Supply to participants.		3,000
Programme of Special Assistance to Selected Departments - Department of Physical Chemistry - Research Fellowships - Release of grant.		31,000
National Associateship -		1,000
Senior/Junior Research Fellowships in Science - payment of Fellowship.		3,300
-do-		3,300
-do-		1,729.03
Programme of British Assistance to Centres of Advanced Study - Duputation of Dr. R.Kalyansundaran and Dr.(Mrs.) Indira Kalyansundram of Centre of Advanced Study in Botany to U.K.		740
Writing of University level books/monographs.		40.55

Affiliated Colleges

Madras Christian College, Tumburan.	Senior/Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of Fellowship.		3,000
Khadir Mohidown College, Adirampattinam, Thanjawur, Distt.	Grant towards the loan of books to students/setting up of book banks.	1st	8,500
The Ethiraj College, Commandar-in-Chief Road, Egmore, Madras.	-do-	1st	11,250
Veerheans College, Vellore.	-do-	1st	8,500
Queen Mary's College Madras.	-do-		1,722
Sri Avinashilingam "use Sciences College for Women, Coimbatore-1.	Construction of Gymnasium Building.	5th & final	2,500

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Madras University (Contd.)

Affiliated Colleges

National College, Tiruchirapalli-1.	Development of play field & purchase of accessories for games and sports.	2nd & final	1,500
Presidency College, Madras.	College Humanities and Social Sciences Improvement Programme - Payment of grant.	1st	15,000
Government Training College, Permittal.	Development of teachers training programmes in teachers training colleges - Construction of NRSC.	1st.	25,000
St. Joseph's College, Tiruchi- rapalli-2.	UGC Assistance for the Research Project entitled "Estimation of Internal Pressure in Liquids, Liquid Mixtures and Sometimes and Theory of Liquid State" of Shri G.M. Sometimes and Theory of Liquid State" of Shri G.M. Srinivasan, Department of Physics, St. Joseph's College, Tiruchirapalli - Fifth Five Year Plan Period - Release of the 2nd instalment of 'on account' grant.		4,500

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Total: 1,49,915.78

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43. Madurai University

Development Schemes under - Plan period - Training Programme for College teachers in Maths. during IV Plan.	final	22,972.35
Development Schemes under - Plan period - Establishment of Students Aid Fund during the year 1974-75.		9,935
College Science Improvement Programme - University Leadership Project in Biological Sciences - Third Certificate Course in Biological Chemistry.		40,000

P.T.O.

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Madurai University (Contd.)

Indo-USSR Cultural Exchange Programme - Reimbursement of salary of Russian Languages Teacher assigned this University.	2,100
Establishment of Microbial Culture Centre for Molecular Genetics at the Department of Biological Sciences - Payment of Grant-in-aid.	2,500
Organisation of workshop on examination reforms.	10,000
Senior/Junior Research Fellowships in Science - payment of Fellowship.	2,148.38

Affiliated Colleges

Aditanar College of Arts & Science, Virapandiappattanam, Tiruchendur.	Development of play field and purchase of accessories for games and sports.	2nd & final	1,500
Thiagarajar College, Madurai.	Grants towards the loan of books to students-setting up of book banks.	1st	11,250
St. John's College, Palayankottai-Tirunciveli-2.	Students' Aid Fund in the colleges for the year 1974-75.		2,250
Fatima College, Madurai.	-do-		1,500

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Total: 1,06,156.73

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44. Magadh University

Junior Research Fellowships in Humanities including Social Sciences - payment of Fellowship.	3,806.45
-do-	4,800
-do-	7,200
Unassigned grant during the Fifth Plan Period 1974-75.	16,000

Affiliated Colleges

A.N.S. College, Barh, Patna.	Students' Aid Fund in the Colleges-Sanction of grant for the year 1974-75 - regarding.	1,750
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Magadh University (Contd.)

Affiliated Colleges

Ramlakhan Singh Yadav College, Bakhtiarpur (Patna).	Grants to College Libraries for loan of books to students (Book Bank) during Fifth Plan.		6,000
S.S. College, Jahanabad. (Gaya).	-do-		6,000
Nalanda College, Biharsharif.	Construction of Teachers' Hostel - Assistance for.	4th	5,000
-do-	Construction of Centenary Block - Assistance for.	5th	10,000
Anugrah Memorial College, Gaya.	Grants to colleges for Laboratory Equipment.	2nd & final	5,000
-do-	Grants to colleges for laboratory equipment.	2nd & final	10,000
Total:			75,556.45

45. Mysore University

Writing of University level books/ monographs.			1,000
-do-			3,000
Construction of Radiation Laboratory and Radiation Store House for Physics Department.	2nd		5,000
College Science Improvement Programme - University Leadership Project in Physics - Orientation Course.			30,000
Seminar on 'Selection and Training in Fundamental and Applied fields of Psychology in Indian Universities.	final		602.61
Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -			5,750
Construction of Men's P.G. Students Hostel at -	6th		10,000
Construction of the Building for the institute of correspondence course and continuing education university of Mysore - Financial assistance for.			60,000

Affiliated Colleges

Convery College, Conihoppal.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	1,000
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Mysore University (Contd.)

Affiliated Colleges

Siddaganga Evening College, Tumkur.	Grants towards the loan of books to students - setting up of book banks.	1st	5,625
Sarada Vilas College, Mysore.	-do-	1st	5,625
Lal Bahadur Arts Science and S.B. Selabenna Setty Commerce College, Sagar (Shimoga Distt.)	-do-	1st	5,625
Convery College, Gonikoppal.	-do-	1st	5,625
D.R.N. College, Davangere.	-do-	1st	8,500
S.V. Kanamma College for Women, Davangere.	-do-	1st	5,625
Vivekananda College of Arts, Science and Commerce, Puttur.	Consturction of Men's Hostel and purchase of furniture.	final	5,000
Aswathish Esthuri Sanjeevamma, National College, Curibidanur (Distt. Kolar).	Students Aid Fund in the colleges-Grant for 1964-75.		229
Total:			2,08,206.61

46. M.S. University of Baroda.

UGC Assistance for the Research Project entitled "Regulatory Relationship between Arginine and Nucleic Acid Metabolism in Plant Tumour Tissues" of Dr. S.K. Srivastava, Bio-chemistry Department, Fifth Five Year Plan period - Approval for the appointment of S.R.F. and release of the 1st instalment of grant.	11,200
Establishment of Model Diploma courses at Baroda University Polytechnic - Payment of stiponds to students.	13,014



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M.S. University of Baroda (Contd.)

Writing of University level books/ monographs.	1,934.40
Utilisation of services of Out- standing Retired Teachers - Payment of grant in respect of -	7,000
Junior Research-Fellowships in Science - payment of Fellowship.	1,612.90

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Total: 34,760.30

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47. Marathwada University

Assignment of Russian Language Teacher - claiming grants from the university Grants Commission.	9,300
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Affiliated Colleges

Shri Sharda Bhawan Education Society's Yashwant Mahavidya- laya, Nanded.	Writing of university level books/monographs.		4,132.95
-do-	Development of play field and purchase of accessor- ies for games & sports.	2nd & final	1,500
Maulana Azad College of Arts and Science & Commerce, Aurangabad.	-do-	2nd & final	1,500
N.E.S. Science College, Nanded.	College Science Improve- ment Programme - Selected Colleges Project - Grant- in-aid.	3rd	50,000
Lal Bahadur Shastri Mahavidyalaya, Kharsobad (Nanded).	Construction of Men's Hostel - Sanction of grant for -	3rd	60,000
Ramakrishana Parac- chanan Mahavidyalaya, Orangabad.	Construction of Library Building - Sanction of final instalment of grant for -	3rd & final	4,432
Mahatma Gandhi Mahavidyalaya (Arts, Science & Commerce), Distr. Osmanabad.	Grants to College Libraries for loan of books to students (Book Banks).	1st	8,400
Nutan Mahavidyalay, Sailu, Distt. Parbhani.	-do-	1st	5,600
Regional Engineering College, Warangal.	Research Fellowships in Engineering & Technology - payment of fellowship.		4,451.61

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Marathwada University (Contd.)

Affiliated Colleges

Regional Engineering College, Warangal.	Research Fellowships in Engineering & Technology - payment of Fellowship.	9000
Maharashtra Mahavidyalaya, Nilanga.	Students' Aid Fund in the Colleges - Grant for 1974-75.	1,000
Dnyan Prasarak Mahavidyalaya, Kallam (Distt. Osmanabad).	-do-	1,408
N.E.S. Science College, Nanded.	-do-	1,548
People's Education Society's Milind College of Science, Aurangabad.	-do-	2,250
Manik Chand Pabude Law College, Aurangabad.	-do-	1,750
Bajashi Shahu Mahavidyalaya, (Arts, Science & Commerce), Latur.	-do-	2,750
Shivaji Mahavidyalaya, Udgir (Osmanabad).	-do-	1,750
College of Agriculture, Parbhani.	-do-	810
<b>Total:</b>		<u>1,63,482.56</u>

48. Mcerut University

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of fellowship and contingency grant.		2,942.86
-do-		8,250
-do-		3,754.84
-do-		4,800
-do-		4,800
-do-		4,800
-do-		7,200

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Meerut University (Contd.)

Affiliated Colleges

D.A.V. College, Muzaffarnagar.	Junior Research Fellowships in Science - payment of Fellowship.		1,716.13
-do-	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	950
-do-	-do-	2nd & final	950
Meerut College, Meerut.	-do-	2nd & final	600
Ishwar Dayal Prasadi Devi Degree College, Bulandshahr.	Grant towards the loan of books to students-setting up of Book Banks.	1st	5,625
Shri Saraswati Vidyalaya College, Nagpur.	Development of Postgraduate Studies in the Science Subjects.		4,000
S.S.S.V. College, Hapur.	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of - Students' aid fund in the Colleges - Grant for 1974-75.		1,500
Kanshiya Lal D.A.V. College, Roorkee.	-do-		285
Raghunath Girls' Degree College, Meerut.	-do-		2,463
Janta Vedic College, Baraut, Meerut.	Construction of Teachers Hostel.	5th	7,000
K.V. Degree College, Machhra.	Purchase of equipment and books.	final	4,777

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Total: 66,413.83

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49. Nagpur University

Senior/Junior Research Fellowships. in Science - payment of Fellowship		4,800
-do-		4,800
-do-		3,500
-do-		256.67
-do-		900
-do-		900
-do-		3,666.67

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Nagpur University (Contd.)

Affiliated Colleges

College Name	Students' Aid Fund in the Colleges - Grant for 1974-75.	Amount
N.M.D. College, Gondia.	Students' Aid Fund in the Colleges - Grant for 1974-75.	1,031
Suwalal Patni Arts and Commerce College Pulgaon.	-do-	517
Janta Mahavidyalaya, Bhandrapur.	-do-	3,454
Dr. H.N. Sinha Arts and Commerce College, Patur (Distt. Akola).	-do-	500
Seth Kesarimal Patwal College, Kamptes.	-do-	953
Lady Amritbai Daga College for Women, Nagpur.	-do-	1,347
R.S. Bidkar Arts and Commerce College, Winganghat.	-do-	471
J.D. Patel Sangludkar Mahavidyalaya, Nagpur.	-do-	432
S.P.M. Arts and Commerce College, Chikhli.	-do-	500
Mahatma Phuley Arts, Commerce and Sitaramji Choudhary Science Mahavidyalaya, Varud (Distt. Amravati).	-do-	883
Shri Shivaji College, Akot (Distt. Akola).	-do-	695
Jankidevi Bajaj College of Science, Wardha.	-do-	853
C.P. & Barar Education Society's College, Tulsibagh, Nagpur.	-do-	2,845
Shripad Krishna Kolhatkar, Mahavidyalaya, Jalgaon, Distt. Buldana.	-do-	750

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Nagpur University (Contd.)

Affiliated Colleges

008. Shivalambi College of Education, Wardha.	Students' Aid Fund in the Colleges-Grant for 1974-75.	1st	185
Shri Shivaji College of Science, Ravati.	-do-	-	716
Yeshwant Mahavidyalaya, Wardha.	-do-	-	1,533
The Jiyamata Mahavidyalaya, Buldana-	-do-	-	35,495
Jantal College of Education, Chardrapur.	-do-	-	7,000
G.S. College of Commerce & Economics, Amravati Road, Nagpur.	Construction of Men's Hostel during Fourth Plan.	3rd	15,000
Institute of Science, Nagpur.	Grants to college libraries for loan of books to students (Book Banks).	1st	8,000

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Total: 1,01,983.34

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50. North Bengal University.

Junior Research Fellowships in science-payment of Fellowship. 2,425.25

Affiliated College

Ananda Chandra College of Commerce, D.B.C. Road, Jalpaiguri.	Grant-in-aid for the construction of Non-Resident Students' Centre.	2nd	30,000
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Total: 32,425.25

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51. Osmania University

Writing of university level books/monographs.		4,800
Senior/Junior Research Fellowships in Humanities - Extension on Fellowship tenure - payment of fellowship to -		5,070.97
Development of P.G.-Course in Engineering and Technology Deptt. of Civil Engineering - Purchase of Equipment.	2nd	70,000
Development of P.G. Course in Engineering and Technology - Department of Chemical Engineering - Purchase of Library books.	2nd	10,000

Affiliated Colleges

Sardar Patel College, 14, Padma Rao Nagar, Secunderabad.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	500
-do-	-do-	2nd & final	500
Adarsh College of Science, Commerce & Arts, Jammikunta (Karimnagar Distt.).	Students' Aid Fund in the Colleges-Grant for 1974-75.		2,250
S.R. & B.G.N.R. Govt. Arts & Science College, Khammamod.	-do-		4,000
Dr. B.R.R. Govt. College, Jadchorla.	-do-		1,261
Regional Engineering College, Warangal.	-do-		2,750
M.A.L.D. Govt. Arts & Science College, Gadwal (Mahbubnagar Distt.)	-do-		582
S.V.E.S. Telugu Kalasala (Evening), Vidyanagar, Hyderabad.	-do-		1,000
Arts & Science College, Arcor.	-do-		750

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Total: 1,00,463.97

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52. Punjab University

Organisation of Summer Institute in Analytical Chemistry during 1975 - sanction of an 'on account' advance grant - regarding Junior Research Fellowships in Science-payment of Fellowship.		30,000
-do-		4,800
-do-		4,800
-do-		4,800
Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of -		6,000

Affiliated Colleges

Guru Nanak College, Ferozepur Cantt.	Grant towards the loan of books to students - setting up of book banks.	1st	5,625
Goving National College, Goving nagar, P.O. Narangwal. (Distt. Ludhiana).	-do-	1st	5,625
Swami Premanand Mahavidyalaya, Mukerian (Distt. Hoshiarpur).	-do-	1st	8,437
Jagdish Chandra D.A.V. College, Dasuya (Hoshiarpur).	-do-	1st	5,625
Master Tata Singh Memorial College for Women, Ludhiana-1.	-do-	1st	5,625
Malwa College, Bondli Samrala (Distt. Ludhiana).	-do-	1st	5,625
-do-	Development of teachers training programmes in teacher training colleges - construction of teachers hostel.	final	5,248
G.M.N. Khalsa College, Ludhiana.	Construction of Six class rooms.	2nd	24,000

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Total: 1,21,010

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53. Punjab Rae Krishi Vidyapeeth

Affiliated College

Anandpur Veterinary College, Anandpur.	Students' Aid Fund in the Colleges - Grant for 1974-75.	55
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Total:	55
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54. Punjab Agricultural University.

Affiliated colleges

College of Veterinary of Medicine, Ludhiana.	Junior Research Fellowships in Sciences - payment of contingency grant.	1,363.65
-do-	-do-	1,832.26
College of Agriculture, Ludhiana.	-do-	4,800
College of Veterinary of Medicine, Ludhiana.	-do-	4,800

Total:	12,795.91
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55. Patna University

Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -	5,783.39
Junior Research Fellowships in Humanities including Social Sciences - payment of Fellowship.	3,741.94
-do-	4,800
-do-	4,800
-do-	3,935.48
-do-	2,496.77
-do-	4,800
-do-	1,500
-do-	5,316.73

Affiliated Colleges

B.N. College, Patna.	-do-	4,800
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Patna University (Contd.)

Affiliated Colleges

B.N. College, Patna.	Students' Aid Fund		2,750
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Total		44,723.71
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56. Poona University

Basic grant for the purchase of books & journals during the 5th Five Year Plan Period (Humanities & Social Sciences Departments).		35,500
Basic grant for the purchase of books and journals during the 5th Five Year Plan Period (Science Departments).		1,04,500
Basic grant for the purchase of scientific equipment during the 5th Five Year Plan Period.		1,00,000
Release of grant towards the closing of Basement of the building for Humanities & Social Sciences Departments - 4th Plan Development Scheme.	final	6,657
Writing of university level books/monographs.		3,000
-do-		1,875
-do-		800
National Associateship.		700
-do-		1,000
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	2,000
Senior/Junior Research Fellowships in Science - payment of Fellowship.		4,800
-do-		7,200
-do-		4,800
-do-		4,800
-do-		2,503.23

Affiliated Colleges

Annasahed Awate College, Manchar.	Extension of Library Building.	1st	30,000
-do-	Construction of Lecture Halls.	1st	25,000

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Poona University (Contd.)

Affiliated Colleges

S.S.V.P. Sanstha's Arts and M.F.M.A. Commerce College, Dhulia.	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of -	7,000
M.J. College of Arts and Science, Jalgaon.	-do-	6,000
Deccan College, Postgraduate and Research Institute, Poona-6.	-do-	7,000
Gokhale Institute of Politics and Economics, Poona-4.	-do-	7,000
Dhanaji Nana Mahavidyalaya, Faizpur (Jalgaon).	Students' Aid Fund in the Colleges-Grant. for 1974-75.	2,914
Arts, Science and Commerce College, Anandurbar.	-do-	1,750
Arts, Science and Commerce College, Pachora (Distt. Jalgaon).	-do-	1,000
Seba Sadan's College of Education, Ulhanagar.	-do-	1,000
S.P.D.M. Arts and S.B.B. & S.H.D. Commerce, S.M.A. science College, Shripur.	-do-	1,000
Modern College of Arts, Science and Commerce, Shivaji- nagar, Poona-4.	-do-	2,081
College of Education, Nasik.	-do-	292
Tilak College of Education, Poona-9.	-do-	445
J. Karayanco Boravake College, Shrirampur, Distt. Ahmednagar.	-do-	2,336
B.Y.K. College of Commerce, Nasik.	-do-	1,500

P.T.O.

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Poona University (Contd.)

Affiliated Colleges

MES Bhusawal Arts Science & P.O. Nahata Commerce College, Bhusawal.	Students' Aid Fund in the Colleges-Grant for 1974-75.		3,250
Karjat College, Karjat (Ahmednagar).	-do-		608
M.C.V. College of Education, Malgaon Camp (Nasik).	-do-		360
National Chemical Laboratory, Poona.	Writing of university level books/monographs.		2,550
Total:			3,83,239.23

57. Panjab University

Senior/Junior Research Fellowships in Science-payment of Fellowship.		4,800
-do-		1,935.48

Affiliated Colleges

Public College, Samana (Patiala).	Grant towards the loan of books to students-setting up of Book Banks.	1st	5,625
D.A.V. College, Bhatinda.	-do-	1st	5,625
Shadced, Udham Singh Govt. College, Sunam.	-do-	1st	5,625
Total:			23,610.48

58. Rajasthan University

A-11 India Summer Institute in English Language Teaching for College Teachers during 1975 - sanction of 2nd instalment grant for -	2nd	30,000
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Rajasthan University (Contd.)

Junior Research Fellowships in Science - payment of Fellowship.		4,800
-do-		4,800
-do-		1,716.13
Writing of university level books/monographs.		1,500
-do-		3,000
-do-		1,000
Establishment of Examination reform unit - sanction of grant for.		25,000
Utilisation of services of Outstanding Retired Teachers - Payment of grant in respect of -		6,000

Affiliated Colleges

Government College, Ajmer.	UGC Assistance for the Research Project entitled "Cytotaxonomic and Experimental Studies of the Pteridophytic Flora of Rajasthan" of Dr. T.N. Bharadwaja, Department of Botany, Government of College, Fifth Five Year Plan Period - Release of the 2nd instalment of grant.		4,800
M.G.S. Mahavidyalaya Sri Ganganagar.	Grant to colleges under Students Welfare Programme		750
S.M.B. Government College, Nathdwara.	Grants to College Libraries for loan of books to students (Book Banks).	1st	6,000
Government College, Baran (Distt. Kota).	-do-	1st	8,000
-Govt. College, Shahpura (Bhilwara).	-do-	1st	6,000
Govt. College, Sirchi.	-do-	1st	6,000
Ch. Balu Ram Godhra Government Girls College, Sri Ganganagar.	-do-	1st	8,000
B.Y. Gyan Vigyan Mahavidyalaya, Banasthali Vidya-pith.	Construction of Women's Hostel.		25,000

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Rajasthan University (Contd.)

Affiliated Colleges

Daya Nand College, Ajmer.	Purchase of Six New Hindi Type-writers.	2nd & final	4,750
Danger College, Bikaner.	Financial assistance to teachers in the universities and colleges for undertaking research or learned work in Sciences.	1st	1,500
S.M.S. Medical College, Jaipur.	Senior/Junior Research Fellowships in Science- payment of fellowship.		3,240
Gopikisan Pirmal College of Educa- tion, Bagar.	Students' Aid Fund in the Colleges-Grant for 1974-75.		750
Government Ayurved College, Jaipur.	-do-		900
Nehru Memorial Degree College, Hanumangarh Town.	-do-		1,440
Government College, Sambhar Lake.	-do-		412
Total:			1,55,358.13

59. Rajendra Agricultural University

Affiliated College

Tirhut College of Agriculture, Dhali, Muzaffar- nagar.	Financial Assistance to teachers in the universities and colleges for undertaking research or learned work in Sciences.	1st	1,500
Total:			1,500

60. Ranchi University

Affiliated Colleges

Jamshedpur Women's College, Jamshedpur.	Basic grant for purchase of library books.		500
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Ranchi University (Contd.)

Affiliated Colleges

Birla Institute of Technology, Mesra.	Travel grant to Shri S.N. Dwidi for attending International Forging Conference at Paris between April 25, 1975.		3,015
K.B. College, P.O. Berme. (Hazaribagh).	Grant for purchase of library books.	2nd & final	5,000
Tata College, Chaibasa.	Grants to colleges libraries for loan of books to students - book banks.	2nd & final	897.60
Jamshedpur Workers' College, Sakashi, Jamshedpur.	Students' Aid Fund		1,750
	-of-		
		Total:	11,162.60

61. Ravishankar University

	Construction of Students Home - Release of grant.		5,000
	Senior/Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of Fellowship.		7,200

Affiliated Colleges.

Govt. College, Secni.	National Associateship.		2,000
Govt. Degree College, Jagadapur.	Grants to college libraries for loan of books to students - Book Banks).	1st	6,000
R.C.S. Arts and Commerce College, Durg.	Students' Aid Fund		1,000

Total: 21,200

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62. Roorkee University

Implementation of the programme of cooperation between India & USSR in the field of Applied Science and Technology - Payment of grant for.		650
Development of Scientific Education during IVth Plan. - Payment of Recurring grant for Additional Staff in Geology and Geophysics.		4,724.40
Recurring grant for Water Resources Development Training and Centre during 1975-76.		1,00,000
Postgraduate course in Civil Engineering and Technical Education development schemes during IV Plan - equipment grant.	final	58,000
Engineering and Technical Education Development schemes during IV Plan - Equipment grant.	6th	10,000
Establishment of computer Training Centre in the Electronics and Communication Engineering Department - Equipment grant.		80,000
Introduction of P.G. Course in Earthquake Engineering (Recurring grant for staff salaries).		91,940
Introduction of P.G. course in Chemical Engineering IV Plan - Equipment grant.	final	4,000
Introduction of Postgraduate (Diploma) Course in Television Engineering.		1,00,000
Introduction of Degree Course in Environmental Engineering - Payment of recurring grant for.		10,000
Research Fellowships in Engineering & Technology -payment of Fellowship.		466.67
-do-		4,800

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Total: 4,64,581.07

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63. Sambalpur University

Gandhi Centenary programme.	500
Annual Conference on the Orissa Mathematical Society.	2,000
Grant-in-aid towards the establishment of Health Centre - Fourth Plan Scheme.	15,000

Affiliated Colleges

Panchayat College, Bargarh.	Grants to towards colleges libraries for loan of books to students (Book-Bank) during Fifth Plan.	1st	6,000
Regional Engineering College, Rourkela.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	500
-do-	-do-	2nd & final	1,000

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Total: 25,000

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64. Sardar Patel University

Implementation of examination reform programme.	10,000
Salary of staff for the Department of Education - IV Plan continuing scheme.	36,000
Writing of university level books/monographs.	934.76
Construction of staff quarters for final class IV servants.	975

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Total: 47,909.76

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65. Saugar University

Terms and conditions for all foreign language teachers under Indo-Foreign Cultural Exchange Programme.	10,000
Junior Research Fellowships in Science-payment of Fellowship.	4,800

P.T.O.



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Saugar University (Contd.)

Junior Research Fellowships in Science-payment of Fellowship.	4,800
-do-	4,800
-do-	4,800
-do-	7,200

Affiliated Colleges

Arts and Commerce College, Harda.	Grants to college libraries for loan of books to students (Book Banks.)	1st'	6,000
Govt'l College, Seoni.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,750
Seva Sadan Mahavidyalaya, Burhampur.	-do-		1,000
Govt. P.G. College, Chhindwara.	-do-		2,750
Government Degree College, Damoh.	-do-		1,506
J.L.N. Memorial Mahavidyalaya, Sohagpur (Hoshangabad).	-do-		1,000
Motilal Nehru Law College, Khandwa.	-do-		350
Sun Mahavidyalaya, Jni-Malwa (Hoshangabad).	-do-		194

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Total: 50,950

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66. Saurashtra University

Basic grant for the purchase of library books and journals during the 5th Five Year Plan Period (Humanities Department).	30,000
Purchase of furniture and equipment for Central Library.	73,000
Construction of 96 Men Students Hostel.	16,500

P.T.O.

Saurashtra University (Contd.)

Affiliated Colleges

SSP Jain Arts and Commerce College, Dhrangadhra, Gujarat.	Grants to college libraries for loan of Books to students (Book Banks).	1st	6,000
Shri K.V. Parekh Science College, Matushri T.K. Parakh Arts College, Mahuva.	-do-	1st	6,000
Kavishree Botadkar Arts & Commerce College, Botad.	-do-	1st	6,000
Smt. J.J. Kundaliya Commerce College, Rajkot.	-do-	1st	12,000
Shree K.V.P. Science College & Matushri T.K.P. Arts College, Mahuva.	Students' Aid-Fund.		1,000
Shree Somnath College, Foraval.	-do-		2,250
			<hr/>
		Total:	45,750

67. Shivaji University

Setting up Employment-cum- Advisory Bureau - IV Plan			23,139.90
Establishment of Main Health Centre IV Plan Scheme -			8,000
Sanction of recurring grant. Junior Research Fellowships in Science - payment of fellowship.			4,800
-do- Basic grant for the purchase of Scientific Equipment during IV Plan Period.			4,800
			35,000
<u>Affiliated Colleges</u>			
Shivaji College of Arts & Commerce, Gadhinglaj.	Grants to college libraries for loan of books to students (Book Banks).	1st	6,000

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Shivaji University (Contd.)

Affiliated Colleges

Science College, Satara.	Grants to college libraries for loan of books to students (Book Banks).	1st	5,000
Sholapur College, Sholapur.	-do-	1st	8,000
Yeshwantrao Chavan Mahavidyalaya, Karmala (Distt. Sholapur).	-do-	1st	6,000
Sholapur College, Sholapur.	-do-	2nd & final	2,557
Rajaram College, Kolhapur.	Senior/Junior Research Fellowships in Science/ Humanities including Social Sciences/Research Fellowship in Engineering & Technology - payment of Fellowship. Students' Aid Fund		4,800 638
Damasi Gopahni Bhajaruratan Dayanand Evening Law College, Sholapur.			
Shivaraj College of Arts & Commerce, Gadhinglaj (Distt. Kolhapur).	-do-		1,300
Gopal Krishna Gokhale College, Kolhapur.	-do-		2,183
Shri Shivaji Mahavidyalaya, Barsi.	-do-		1,440
Jaychand College Arjunnagar, Distt. Kolhapur, Via Nipani.	-do-		3,574
Walchand College of Engineering, Sangli.	-do-		874
Arts and Commerce College, Ashta (Distt. Sangli).	-do-		1,000
Arts, Science & Commerce College, Lchalkaranji (Sholapur).	-do-		1,750
College of Education, Sangli.	-do-		137

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Shivaji University (Contd.)

Affiliated Colleges

Sangli College of Commerce, Sangli.	Students' Aid Fund in the Colleges-Grant for 1974-75.	1,750
Vivkanand College Kolhapur.	-do-	2,250
College of Commerce, Kolhapur.	-do-	1,757
Yeshwantrao Chavan Mahavidyalaya, Karmala.	-do-	441
Barsi College, Barsi (Distt. Sholapur).	-do-	1,002
<b>Total:</b>		<b>1,28,192</b>

68. S.N.D.T. Women's University

Grant-in-aid towards the Construction of Women's Hostel at Poona.	1,00,000
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Affiliated Colleges

Mahila Mahavidyalaya, Baroda.	Students' Aid-Fund in the Colleges - Grant for 1974-75.	1,682
<b>Total:</b>		<b>1,01,682</b>

69. South Gujarat University

Basic grant for the purchase of library books & journals during the 5th Five Year Plan period. (Sciences Department).	
Grant-in-aid towards the construction of Women's Hostel.	30,000

Affiliated Colleges

B.P. Baria Science Institute, Nayasari.	Grants to college libraries 1st for loan of books to students (Book Banks).	8,000
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South Gujarat University (Contd.)

Affiliated Colleges

Ballubhai Krishnalal Majumdar Science College, Tathul Road, P.O. Valsad.	Grants to College libraries for loan of books to students (Book Banks).	1st	6,000
Sardar Vallabhbhai Regional College, for Engineering & Technology, Surat.	UGC Assistance for the Research Project entitled "Optical and Magneto- optics of Dispersed Media" of Dr. H.S. Shah, Head of the Department of Physics, - Fifth Five Year Plan period -	2nd	9,000
S.V.B. College of Engineering and Technology, Surat.	Students Aid Fund.		1,286
Total:			54,286

70. Sri Venkateswara University

Workshop in Mathematics for College Teachers (from April 22 to 27th April 1975).	final	282.26
--Junior Research Fellowships in Science - payment of Fellowship.		4,800
-do-		1,500
-do-		4,800
-do-		4,800
-do-		2,722.58

Affiliated Colleges

B.T. College, Madanapalle.	Book Bank Scheme	2nd & final	4,750
K.V.R. Government College for Women, Jurnool.	Students' Aid Fund.		1,000
Visvedaya College, Venkatagiri Town (Nellore Distt.).	-do-		750
Jawahar Bharati, Kavali (Nellore Distt)	Health Centre and purchase of equipment.		2,580
Total:			27,984.84

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71. Sampurnanand Sanskrit Vishwavidyalaya

Senior Research Fellowships in Humanities - Extension in Fellowship tenure - payment of fellowship to - 7,200

Total: 7,200

72. Tamilnadu Agricultural University

Financial Assistance to Teachers for research/learned work in Sciences. 2nd & final 750

Affiliated College

Agricultural College Students' Aid Fund and Research Institute, Coimbatore. 750

Total: 1,500

73. Udaipur University

Junior Research Fellowships in Humanities including Social Sciences - payment of fellowship and contingency grant. 7,654.84

Affiliated Colleges

Government Girls College, Udaipur. Grants to college libraries loan of books to student's (Book Bank). 2nd & final 1,625.60

Government Mobra Girls College, Udaipur. Assistance for the purchase of Science equipment, furniture and construction of Gas Plant. 4th & final 9,971.23

Total: 19,251.67

P.T.O.

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74. Utkal University

National Associationship.		2,000
Senior/Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowships in Engineering & Technology - payment of Fellowship.		4,800
-do-		4,800
-do-		2,735.48
-do-		4,800
Writing of university level books/ monographs.		2,500

Affiliated Colleges

Bhadrak College, Bhadrak.	Financial assistance to college for development of play field & purchase of accessories for Games & sports.	2nd & final	1,500
Ravenshaw College, Cuttack.	Utilisation of Services of Outstanding Retired Teachers - payment of grant in respect of -		998.94
Keonjhar College, Keonjhar.	Grants to College libraries for loan of books to students (book Banks) during Fifth Plan.	1st	6,000
Shailabala Women's College, Cuttack.	-do-	1st	8,000
Government Evening College, Balasore.	-do-	1st	6,000
Nimapara College, P.O. Nimapara, Distt. Puri.	-do-	1st	6,000
Angul College, Angul.	-do-	1st	6,000
Kendrapara College, Kendrapara.	-do-	1st	8,000

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Total: 64,134.42

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75. Vikram University

Basic grant for the purchase of library books & journals during the 5th Five Year Plan Period.	2nd	50,000
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P.T.O.

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Vikram University (Contd.)

Basic grant for the purchase of Scientific Equipment during the fifth five year plan period.		95,000
Basic grant for the purchase of library books and journals during the 5th Five Year Plan Period (Humanities Departments).		98,000
Reimbursement of salary of Russian Teachers under Indo-USSR Cultural Exchange Programme.		5,395.32
Allocation of un-assigned grant for 1st 1975-76 - Release of grant for Construction of Gymnasium.	4th	12,500
Junior Research Fellowships in science - payment of Fellowship.		50,000
		2,000
-do-		3,380.65

Affiliated Colleges

Madhav Vigyan Mahavidyalaya, Ujjain.	Development of play fields and purchase of accessories for games & sports.	2nd & final	1,500
Government Girls' College, Ratlam.	Students' Aid Fund		678
Government Degree College, Jhabua.	-do-		996
<b>Total:</b>			<b>3,19,449.97</b>

76. Visva Bharati

Junior Research Fellowships in science-payment of Fellowship.		1,832.26	
-do-		2,000	
-do-		2,000	
-do-		1,664.52	
-do-		7,200	
Utilisation of Services of Outstanding Retired Teachers.		6,000	
Junior Research Fellowships		4,800	
<b>Total:</b>			<b>25,496.78</b>



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INSTITUTIONS DEEMED TO BE UNIVERSITIES

1. Birla Institute of Technology.

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellowships in Engineering and Technology - payment of fellow- ship and contingency grant.		9,040
-do-		2,148.39
Writing of university level books/ monographs.		2,000
-do-		499.10
UGC Assistance for the Research Project entitled "Studies on the Preparation and Industrial Application on Molybdenum and its Mixed Oxide Catalysts" of Dr. K.P. Srivastava, Department of Chemistry - Five Fifth Year Plan.	2nd	1,800
Writing of university level books/ monographs.		1,500
Payment of Junior Research Fellowship to M.Sc.(Tech.) Students in Instrumentation and Computer Science Admitted in July, 1974.		54,000
Payment of Junior		11,620.19
-do-		
Writing of university level books/monographs.		1,992.67
Total:		84,600.35

2. Gujarat Vidyapith

Establishment of Printing Press - Sanction of grant for.		5,000
Construction of library building - sanction of grant for.		5,210
Total:		10,210

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3. Gurukul Kangri Vishwavidyalaya

Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	650
-do-	2nd & final	650

Total: 1,300

4. Indian Agricultural Research Institute

Junior Research Fellowships in Sciences - payment of fellowship and contingency grant.		4,100
-do-		4,800

Total: 8,900

5. Indian Institute of Science

Refresher Course in Molecular Biology of Bacterial Viruses and Bacteria from June 16 to July 12, 1975.		2,300
All India Advanced Level Summer Institute in Molecular Biophysics for College Teachers during 1975, Utilisation of Services of Out- standing Retired Teachers - payment of grant in respect of - Senior/Junior Research Fellowships in Science - payment of Fellowship.	2nd	8,000
-do-		1,000
-do-		4,800
-do-		4,800
-do-		1,716.13
-do-		4,800
-do-		1,447.26
-do-		582.50
-do-		996.67
-do-		830.45
-do-		987.13
-do-		998.41
-do-		948.34

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Indian Institute of Science (Contd.)

Programme of Special Assistance to Selected Departments - Department of Inorganic & Physical Chemistry.		1,46,457
Writing of university level books/monographs.		500
Implementation of collaborative project on "The Phosphazenes - A group of Phosphorous Nitrogen Compounds" between Indian Institute of Science .		50,000
	<b>Total:</b>	<b>2,31,163.89</b>

6. Indian School of Mines, Dhanbad.

Assistance from the University Grants Commission for the Research Project entitled "Gravity Survey in India" of Professor R.K. Verma, Professor of Geography,		20,400
	<b>Total:</b>	<b>20,400</b>

7. Jamia Millia Islamia

Students' Amenities - Grant for	3rd	4,500
-do-	2nd &	2,500
-do-	final	
-do-		20,000
-do-	2nd	1,500
-do-	2nd	30,000
Golden Jubilee Grant -	3rd	5,000
-do-	4th &	15,000
-do-	final	
-do-	5th	35,000
	<b>Total:</b>	<b>1,13,500</b>

8. Tata Institute of Social Sciences.

Unassigned grant for 1974-75:	final	5,710.24
	<b>Total:</b>	<b>5,710.24</b>
<b>Total: Plan</b>		<b>1,39,64,605.04</b>

Non - Plan

Delhi University

Affiliated Colleges.

Kamala Nehru College, Panch Shila Park Marg, New Delhi.	Additional expenditure on account of revision of scales of pay of the teaching staff - Payment of grant for the.		1,75,000
Ramjas College, Delhi.	-do-		2,94,000
Indraprastha College for Women, Shyam Nath Marg, Delhi.	-do-		3,50,000
Lady Irwin College, Sikandra Road, New Delhi.	-do-		1,75,000
Dyal Singh College, (Evening Classes), Lodi Road, New Delhi.	Maintenance grant	2nd	50,000
Atma Ram Sanatan Dharma College, Dhaura Kuan, New Delhi.	-do-	2nd	1,00,000
Dyal Singh College, Lodi Road, New Delhi.	-do-	2nd	23,000
Ramjas College, Delhi.	-do-	2nd	1,00,000
Deshbandhu College (Evening Classes), Klkaji, New Delhi.	-do-	1st	1,87,000
Ramlal Anand College (Day Classes), Anand Niketan Marg, New Delhi.	-do-	2nd	70,000
Jesus & Mary College, Chanakyapuri, New Delhi.	-do-	2nd	50,000
Satyawati Co-educational College, Timarpur, Delhi-7.	-do-	1st	1,80,000

Non Plan	Total:	17,54,000
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Grand Total (Plan & Non-Plan)	1,57,18,605.04
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Confidential.

UNIVERSITY GRANTS COMMISSION

Meeting :  
Dated : 14th July, 1975.

Item No. 4: To receive a statement showing expenditure incurred by the University Grants Commission during the year 1975-76 (Upto 31st May, 1975).

.....

<u>SECTION-I NON PLAN PROJECT</u>	<u>BUDGET ESTIMATES ( IN LACS)</u>	<u>EXPENDITURE UPTO 31ST MAY, 1975.</u>
A. Administration Charges	60.00	8,21,250
B. Block Grants to Central Universities.	12,60.00	3,15,00,000
C. Maintenance grant to constituent/ affiliated colleges of Delhi University.	4,80.00	2,07,30,200
D. Schemes not covered under Block Grants.	3,08.00	4,51,950
<b>Total Section -I.</b>	<b>21,08.00</b>	<b>5,35,03,400</b>
 <u>SECTION -II PLAN PROJECTS:</u>		
A. Grants to Central & State Universities for Humanities.	257.25	55,22,940 * 42,609
B. Grants to Central and State Universities for Science.	769.51	1,12,41,010 * 61,863
C. Grants to Central and State Universities for Engineering & Technology.	285.31	35,30,670
D. Grants to Constituent/Affiliated Colleges.	466.95	59,23,318
E. Grants to Central and State Universities for Misc. schemes.	1,322.01	1,37,68,007 * 12,206
F. Misc. Expenditure	32.05	1,59,500
Unesco Coupons.		1,60,000
Dollar Loan Scheme.		-
<b>Total Section -II</b>	<b>3,133.08</b> @400.00	<b>4,02,85,445</b> *1,16,678
<b>Total Section I &amp;II.</b>	<b>5,241.08</b> @400.00	<b>9,37,88,845</b> *1,16,678

@ Ad-hoc requirement on the basis of recommendations of Visiting Committees to Universities.  
\* By Adjustment.

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SECTION III- Expenditure out of grants received from Government of India and other sources for specific purposes.

i)	Evaluation of Books.	150
ii)	Grants to universities for organising Summer Institutes for School teachers (out of contribution received from NCERT)	-
iii)	Fellow for writing of Books.	1,11,705 @8,250
iv)	<u>National Sports Organisation Programme.</u>	
	a) Construction of Gymnasium.	1,01,250
	b) Play fields.	10,163
v)	Dr. Zakir Hussain Memorial Lecturers	-
vi)	Aurbindo Memorial Lecturers	-
viii)	Gandhi Samarak Nidhi	-
Viii)	National Award of Prizes	@2,212
ix)	National Service Scheme.	82,332
	Total Section -III	3,16,062
	Total Section I,II & III.	9,41,04,907
		*1,16,678

Section-IV: Deposits & Advances.

i)	Conveyance Advance	2,800
ii)	Festival Advance.	-
iii)	House Building Advance	27,744
iv)	Fan Advance.	-
v)	UGC Departmental Canteen.	-
	Total Section IV.	30,544

Expenditure during 1974-75 (Upto May, 1974) was as under :

Section-I Non- Plan Project	4,60,58,180
Section -II Plan Project.	6,16,09,109
Total Section I & II.	10,76,67,289

\* By adjustment  
@ Administration charges.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 14th July, 1975

Item No.5: To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 15th June, 1975.

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The Commission desired (Resolution No.5) dated the 12th May, 1975 that it should be kept informed of the progress of clearance of Utilisation Certificates after two months bringing the statement upto date i.e. upto 1973-74. The statement showing clearance for the period ending 15th June, 1975 is given in Annexure.

FINANCE OFFICER

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'CPUGH'

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Annexure to Item No.5

OUTSTANDING UTILISATION CERTIFICATES

(2)

(Amount in lakhs of Rupees)

Year to which pertains	Outstanding as on 16.4.75		Balance Outstanding as on 16.6.75	
	No. of Items.	Amount	No. of Items.	Amount
1958-59	151	19.36	147	19.28
1959-60	331	44.75	315	42.46
1960-61	557	103.73	547	101.91
1961-62	743	173.58	723	170.39
1962-63	1070	42.02	1054	40.40
1963-64	1293	168.81	1274	164.98
1964-65	2513	362.92	2493	359.14
1965-66	2669	199.08	2637	194.26
1966-67	2444	178.43	2418	167.92
1967-68	2670	175.50	2641	172.10
1968-69	4066	439.49	4005	430.51
1969-70	4644	1076.78	4594	1058.41
1970-71	6635	1611.48	6497	1596.90
1971-72	8506	2159.56	8329	2135.74
1972-73	7244	2729.52	6992	2665.53
1973-74	7145	3125.53	6802	3041.20
<b>Total:</b>	<b>52681</b>	<b>12610.54</b>	<b>51468</b>	<b>12361.13</b>

Item Cleared (16.4.75 to 15.6.75) = 1213  
Amount Cleared = Rs.249.41 lakhs.

'CPUGH'



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Confidential

UNIVERSITY GRANTS COMMISSION

Meeting :  
Dated : 14th July, 1975.

Item No. 6: To consider the reports of the UGC Visiting Committee to the Universities of Andhra, Osmania and Sri Venkateswara and P.G. Centres at Guntur, Warangal and Anantapur.

.....  
The Committee constituted by the UGC visited the Universities of Osmania, Andhra and Sri Venkateswara and the three Post-graduate Centres at Warangal, Guntur and Anantapur and held discussions with the State Government and the University authorities from 20th to 30th January, 1975. The Committee consisted of the following:-

1. Professor S. Gopal  
Chairman  
National Book Trust  
5A Green Park  
New Delhi. Convenor
2. Professor R. S. Krishnan  
Vice-Chancellor  
Kerala University  
Trivandrum.
3. Professor A. K. Saha  
Department of Geology  
Presidency College  
Calcutta.
4. Professor J. K. Irani  
Head of the Deptt. of Commerce  
Mysore University  
Mysore.
5. Professor A. C. Jain  
Department of Chemistry  
Himachal Pradesh University  
Simla.
6. Prof. R. Nagabhushanam,  
Deptt. of Zoology  
Marathwada University,  
Aurangabad.
7. Prof. A. M. Shah  
Department of Sociology  
University of Delhi  
Delhi-7.

P.T.O.

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8. Professor P.R. Brahamanda  
Economics Department  
Bombay University Campus  
Kalina  
Bombay-29.
9. Professor A. Gnanam  
Department of Biological Sciences  
Madurai University  
Madurai.
10. Professor S.S. Barlingay  
Department of Philosophy  
Poona University  
Poona.
11. Professor Romila Thapar  
Centre for Historical Studies  
Jawaharlal Nehru University  
New Delhi.
12. Shri M.V. Rajagopal .. Nominee of the State  
Education Secretary .. Government.  
to the Govt. of Andhra Pradesh.
13. Shri I.C. Menon .. Secretary of the  
Deputy Secretary .. Committee.  
University Grants Commission  
New Delhi.

The report is in 7 parts. Part (D) deals with background information and general observations of the committee in regard to development of the Universities in the State. The remaining parts deal with the Universities and Postgraduate Centres. The draft report was sent to all the members and incorporating their comments, the final draft has been prepared and the report as submitted has approval of all members of the Committee. There are 3 universities in the State and three Postgraduate Centres besides the Jawaharlal Nehru University of Technology, the Agricultural University, the Central University at Hyderabad and the Central Institute of English and Foreign Languages which did not come under the purview of the present Committee.

There are 22 districts in the State with 198 degree colleges under them. The enrolment in these colleges and the University departments is nearly 1.6 lakhs. Generally postgraduate education is conducted almost wholly in University departments and in the University Centres for Postgraduate Studies. But during the last 2-3 years Andhra University has given affiliation to 12 colleges to start postgraduate courses (8-M.A., 2-M.Sc., 2-M.Com.).

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The Committee not only examined the developmental needs of the departments of the universities but also got a comprehensive view of the position of higher education in the State as a whole. There is a favourable climate in the State for coordinated development of higher education among the various universities. There is also a general recognition by the academic community for the need to co-relate research with national and state requirements and the importance of inter-disciplinary approaches and cooperation between the departments in teaching and research. The need for experimentation and innovation in such matters as internal assessment, tutorials system and formation of Schools and Centres has also been accepted by the universities.

The Committee has supported the strong pleas of the universities in regard to providing funds for research fellowships, publication grants, faculty improvement programmes and visiting professorships. There is great need for strengthening general facilities like equipment and the libraries. Recommendations have been made to augment books and journals in modern fields and to make recent 'Core' knowledge available.

There is no clear understanding of the semester system, about tutorial methods and internal assessment and it seems necessary for the UGC to take measures to explain these clearly before their introduction or where they had already been introduced in order to promote inter-disciplinary teaching and research. There is need for proper collaboration between the various departments. The suggestion to organise related departments as Schools or Centres has been responded to favourably by the universities. In order to plan, implement and evaluate various programmes, a planning machinery has been suggested for every University. The feed back would be useful to universities on an annual basis to evaluate the performance of the universities, departmentwise and offer helpful suggestions to them for expeditious implementation of the plan.

At the State level the Committee suggests that the Vice-Chancellors of the Universities and the State Education Authorities and a UGC representative should meet periodically to ensure proper planning and implementation of various schemes. This will also ensure inter-university cooperation in the State.

The Committee is of the view that great thought and caution are necessary in planning the courses in the Central University at Hyderabad in view of the fact that the universities in the State particularly Osmania University, have ample facilities for expansion at marginal cost. The new Central University should so plan its courses as not to duplicate those already taught in the State Universities. Some of the proposals for starting courses like M.Lib.Sc., Journalism and Linguistics by all the three universities are conditioned by the Regional Formula restricting admission of local candidates to the Universities

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in the State. The Committee favours modifications of the Presidential Order restricting such admissions.

The three Postgraduate Centres are separated far away from the parent universities and they are treated as annexes by the parent universities. It is necessary that these PG Centres function as Autonomous Units with their own Boards of Studies, with diversified courses and attention to local needs. At present there is little academic justification for upgrading these Centres as universities. The Committee feels that the period of the current plan should be utilized for consolidation of the existing Centres and for the present, a Pro-Vice-Chancellor be appointed at each Centre so that they could be developed to a satisfactory level.

The presence of the Education Secretary of the State on the Committee as nominee of the State Government was useful in clarifying the viewpoints of the State Government and the UGC on important issues of development of universities in the State during the fifth plan, in order to ensure expeditious implementation of various programmes.

Financial implications of the recommendations: OSMANIA UNIVERSITY

During the fourth plan the university Grants Commission had sanctioned schemes worth Rs.108.89 lakhs of which the spill-over is Rs.8.79 lakhs.

A)	The spill-over is	Rs.8.79 lakhs
B)	Basic Grants	
	Books	Rs.5.00 lakhs
	Equipment	Rs.7.50 lakhs
C)	New Allocations	Rs.178,545
1.	Books & Journals	Rs. 39.15
2.	Equipment	Rs. 51.82
3.	Buildings	Rs. 30.825
4.	Fellowships	Rs. 12.50
5.	Others and Misc.	Rs. 15.25
6.	Recurring	Rs. 29.00 (estimated for 17P, 31R and 14L and 6 others).

Of the above staff 6P, 14R, 2L and 6 others are in the first priority 5P, 10R, 8L in second priority, and 6P, 7R, 4L in the third priority. The share of the State Government in all the 3 priorities for recurring is estimated at Rs.1.05 lakhs during Vth plan period and for non-recurring is Rs.27.325 lakhs.

The ceiling for Osmania University is Rs.200.00 lakhs. The distribution of this amount in three priorities including spill-over, basic-grants and recurring estimated is as follows:-

<u>Ist priority</u>	<u>IInd priority</u>	<u>III priority</u>
Rs.100.66 lakhs	Rs.50.92 lakhs	Rs.48.25 lakhs

Total: Rs.199.83 lakhs.

Financial implications of the recommendations of WARANGAL CENTRE (Osmania University)

During the fourth plan the University Grants Commission had sanctioned schemes worth Rs.30.00.lakhs for the Centre and Rs.35.99 lakhs were paid upto the 31st March, 1974.

- A) The spill-over is Rs. nil lakhs. Excess paid Rs.5.99 lakhs.  
B) Basic Grants

Books Rs.1.00 lakhs  
Equipment: Rs.2.00 lakhs

C) New Allocations.

Books & Journals:	lakhs Rs.9.50 )	(inclusive of basic allocations of Rs.1.00 lakh and Rs.2.00 lakhs for Books and Equipment)
Buildings	Rs.10.50	
Fellowships	Rs. 2.25	
Others	Rs. 1.00	
Recurring	Rs. 7.50	(estimated for 15R, 9L and 2 others).

Of the above staff 10R, 5L and 2 others are in the first priority:

5R and 4L in second priority. The share of the State Government in the 2 priorities for recurring is estimated at Rs.0.65 lakhs and for Non-recurring it is Rs.11.00 lakhs.

The allocation amounting (including 4th plan excess payment) to Rs.50.00 lakhs is distributed as follows:-

The ceiling for Warangal Centre is Rs.50.00 lakhs. The distribution of this amount in three priorities including spill-over, basic-grants and recurring estimated is as follows:-

I	II
Rs.35.45 lakhs	Rs.14.55 lakhs

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Financial implications of the recommendations of Andhra University:

During the fourth plan the University Grants Commission had sanctioned schemes worth Rs.87.42 lakhs of which the spill-over is Rs.10.36 lakhs.

A) The spill-over is Rs.10.36 lakhs

B) Basic Grants

Books Rs.3.00 lakhs  
Equipment Rs.5.00 lakhs

C) New Allocations Rs. 139.85 lakhs

Books, & Journals Rs.23.75 lakhs \*Including sum of Rs.3.00 lakhs and Rs.5.00 lakhs for Books and Equipment respectively earmarked as Basic allocations during Vth plan.  
Equipment Rs.45.45 lakhs

Buildings Rs.23.00  
Fellowships Rs. 7.00  
Others Rs.14.05  
Recurring Rs.26.50 (estimated for 11P, 2BR, 27L and 6 others).

Of the above staff 6P, 13R, 11L and 5 others are in the first priority; 5P, 7R, 12L and 1 other in second priority, and 3R and 4L in the third priority. The share of the State Government in all the 3 priorities for recurring is estimated at Rs.2.00 lakhs. The State Government share for buildings is approx. Rs.18.00 lakhs. The ceiling allocation of Rs.150 lakhs is distributed as follows:-

I	II	III	Total
Rs.75.31 lakhs	Rs.37.10 lakhs	Rs.37.80	Rs.150.21

Financial implications of the recommendations of Guntur Centre (Andhra University)

During the fourth plan the University Grants Commission had sanctioned schemes worth Rs.30.00 lakhs for University and Rs.32.525 lakhs were paid upto the 31st March, 1974.

A) The spill-over is Rs. \* lakhs \* Excess paid during the 4th plan Rs.2.525 lakhs.

B) Basic Grants

Books Rs.1.00 lakh  
Equipment Rs.2.00 lakh

p.t.o.

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C) New Allocations

Books & Journals:	Rs.5.60 lakhs
Equipment	Rs.11.50 lakhs
Buildings	Rs.17.875
Fellowships	Rs. 2.00

Recurring Rs.3.20 (estimated for 2P, 11R, 16L and 3 othe

Of the above staff 9R, 7L and 2 others are in the first priority, 2P, 2R, 9L & 1 other in second priority. The share of the State Government in the 2 priorities for recurring is estimated at Rs.1.20 lakhs. The State Government share for buildings is Rs.14.625 lakhs.

The ceiling allocation of 50.00 lakhs, is distributed as follows:-

I	II	Total
Rs.35.80 lakhs	Rs.14.30 lakhs	Rs.50.10 lakhs

Financial implications of the recommendations of Sri Venkateswara University.

During the fourth plan the University Grants Commission had sanctioned schemes worth Rs.59.33 lakhs of which the spill-over is Rs.1.85 lakhs.

A) The spill-over is Rs.1.85 lakhs.

B) Basic Grants

Books	Rs.3.00 lakhs
Equipment	Rs.5.00 lakhs

C) New Allocations Rs. 98.95 (includes basic allocations at B/above)

Books & Journals	Rs.21.45*)	*Includes Rs.3.00 lakhs for Books and Rs.5.00 lakhs for Equipment as Basic grant during the Vth Plan period.
Equipment	Rs.30.75*)	
Buildings	Rs.17.25	
Fellowships	Rs. 7.50	
Others	Rs. 9.00	

Recurring Rs.13.00 (estimated for 7P, 16R, 14L & 7 others

Of the above staff 5P, 13R, 3L & 7 others are in the first priority; 2P, 2R, 9L in second priority and 1R, 2L in the third priority. The share of the State Government in all the 3 priorities for recurring is estimated at Rs.1.00 lakhs. The State Govt. share for buildings is Rs.15.75 lakhs.

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The ceiling allocation of Rs.100 lakhs is distributed in three priorities including spill-over, basic-grants and recurring estimated as follows:

<u>Ist priority</u>	<u>IInd priority</u>	<u>IIIrd Priority</u>	<u>Total</u>
Rs.50.05 lakhs	Rs.25.75 lakhs	Rs.25.00	100.80 lakhs

Financial implications of the recommendations of Anantapur Centre (Sri Venkateshwara University).

During the fourth plan the University Grants Commission had sanctioned schemes worth Rs.30.00 lakhs which was fully utilized.

- A) The spillover is nil
- B) Basic Grants
  - Books Rs.1.00 lakhs
  - Equipment Rs.2.00 lakhs

C) New Allocations

- Books & Journals Rs.8.40 lakhs
- Equipments Rs.13.60 lakhs
- Buildings Rs.11.75 lakhs
- Fellowships Rs. 2.25
- Recurring Rs.11.00 (estimated for 2P, 11R, 15L and 3 others)

Of the above staff 2P, 9R, 8L & 2 others in the first priority; 2R, 7L & 1 other in second priority. The share of the State Government for recurring is estimated at Rs.0.80 lakhs. The State Government share for building is Rs.10.18 lakhs.

The ceiling allocation of Rs.50 lakhs is distributed as follows:

<u>I</u>	<u>II</u>
Rs.34.95 lakhs	Rs.15.05 lakhs

The reports are placed before the Commission for consideration.

D.S.(DI)



**PART I.**

**REPORT OF THE UCC VISITING COMMITTEE TO ANDHRA, OSMANIA, SRI VENKATESWARA UNIVERSITIES AND THE POSTGRADUATE CENTRES AT GUNTUR, WABANGAL AND ANANTAPUR (20-30 JANUARY, 1975).**

The Committee constituted by the UCC Visiting three universities and three Postgraduate Centres in Andhra Pradesh from 20-30 January, 1975 and held discussions with the State Government and the University authorities and students. The Committee consisted of the following members:-

1. Prof. S. Gopal. **Convener**  
Chairman  
National Book Trust  
New Delhi.  
Prof. Pomila Thapar  
Centre for Historical Studies  
Jawaharlal Nehru University  
New Delhi-57.
2. Prof. R.S. Krishnan  
Vice-Chancellor  
Kerala University  
Trivandrum.  
Prof. A. Gnanam  
Deptt. of Biological Sciences  
Madurai University  
Madurai-21.
3. Prof. A.K. Saha  
Department of Geology  
Presidency College  
Calcutta.  
Prof. S. Barlingay  
Deptt. of Philosophy  
Poona University  
Poona.
4. Prof. J.K. Irani  
Head of the Deptt.  
Commerce,  
Mysore University,  
Mysore.  
Shri M.V. Rajagopal (Nominee of the  
Education Secretary  
Andhra Pradesh  
Government.  
Shri K. C. Menon  
Secy. of the  
Deputy Secretary  
Committee.
5. Prof. A.C. Jain  
Department of Chemistry  
Himachal Pradesh University  
Simla.  
UGC  
New Delhi.
6. Prof. R. Nagabhushanam  
Department of Zoology  
Marathwada University  
Aurangabad.
7. Prof. K.M. Shah  
Department of Sociology  
University of Delhi  
Delhi.
8. Prof. P.R. Brahmaiah  
Economics Department  
Bombay University  
Bombay-29.

1. The UGC Committee visited the three universities and three Postgraduate Centres in Andhra Pradesh between 20-30 January, 1975 and held discussions with the Vice-Chancellors, Academic staff, representatives of teachers' associations, Non-teaching staff associations and student unions. The Committee met the Minister for Education, Andhra Pradesh at a dinner given by the Vice-Chancellor of Osmania University and discussed with him various aspects of development of higher education in the State during the fifth plan.

Andhra Pradesh with a population of 43.5 million in 1971 and an area of 2.76 lakhs sq. kilometers is educationally backward compared to the rest of India and needs expansion and development in all the sectors. The literacy percentage in Andhra Pradesh is 24.57 as against the all-India average of 30%. Only 68.3% of the children in the concerned age group are in primary schools, 18.5% in middle schools and 16.1% in secondary schools. Enrolment in higher education is 4 per thousand population as against the All-India average of 6. The postgraduate enrolment is 110 per million population as against the all India figure of 250 and the research enrolment is 13 per million population as against the all India figure of 22. So the State has to make up much ground in all spheres and sectors of education.

The development outlay for higher education in the State during the fifth plan is about one hundred crores of which Rs. ten crores will be for higher education. This includes development of the three universities, the three existing postgraduate centres and 198 degree colleges. While there is considerable pressure of public opinion for more universities and postgraduate centres in the States, the acute scarcity of resources has to be borne in mind. This is primarily responsible for the slow pace of development of the three postgraduate centres particularly those at Guntur and Warangal. In the opinion of the committee there is at present little academic justification for upgrading the postgraduate Centres as Universities.

4. The distance between the Postgraduate Centres and the University headquarters in all the three cases is 200 miles or more. So there is some justification for the State having a few more universities but taking into account the present stage of development and various other constraints it would be prudent to go slow in regard to setting up of more universities during the fifth plan. The committee feels that the period of the current plan, should be utilised for consolidation of the existing postgraduate centres. Their upgrading into universities could be considered thereafter.

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5. The State consists of three distinct regions, (1) coastal region, made up of eight districts, generally called Andhra; (2) the interior region consisting of four districts collectively known as Rayal Seema and (3) Telengana region, consisting of the capital of Hyderabad and nine adjoining districts.
6. The districts under jurisdiction of the Universities are: Andhra University: 1) Srikakulam, 2) Visakhapatnam, 3) East Godavari, 4) West Godavari, 5) Krishna, 6) Guntur, 7) Ongole. Sri Venkateswara University: 1) Kurnool, 2) Nellore, 3) Cuddapah, 4) Anantapur, 5) Chittoor. OSMANIA UNIVERSITY: 1) Hyderabad City, 2) Hyderabad district, 3) Medak, 4) Nizamabad, 5) Mahabubnagar, 6) Nalgonda, 7) Warangal, 8) Khammam, 9) Karimnagar, 10) Adilabad. The number of colleges (degree) in the districts are given in appendix.
7. During 1972-73 there were 262 colleges in Andhra Pradesh of which 11 were university colleges under Agricultural Universities and the Jawaharlal Nehru University of Technology. The Departments of Engineering of the Universities of Andhra, Osmania and Sri Venkateswara are not affiliated/constituent units of JNU. Of the remaining 251 colleges, 25 are university colleges; under Andhra University (6) Osmania University (16) and Sri Venkateswara (3) and the remaining 226 are affiliated colleges. This consisted of two groups  
 a) Arts, Science & Commerce Colleges - 160 and  
 b) Professional Colleges - 66. The number of Arts, Science and Commerce colleges and enrolment in the colleges are as follows:

Univ.	No. of colleges	Enrolment
Osmania	63	53454
Andhra	68	70803
Sri Venkateswara	29	26993

The enrolment position in 1968-69 and 1972-73 is given in the table below:

University	1968-69		Total	1972-73		Total
	Enrl. in Univ.	Enrl. in Colleges		Enrolment in Univs.	Enrolment in Colleges	
Andhra	3274	54452	57726	3700	70803	74503
Osmania	14901	34113	49914	2668	53454	56122
Sri Venkateswara	1697	23773	25470	1100	26933	28033

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Postgraduate teaching is done almost entirely in University departments but in recent years, affiliation has been given to 12 colleges to conduct Postgraduate courses (M.A.-8), (M.Com.-2), (M.Sc.-2)

8. In the proposed amendment to the Universities Bill in the State, there is a provision for a State UGC which will take over the present finances of the Government in regard to management of the Grant-in-aid to aided colleges and block grant and adhoc grant of the universities and also bring about coordination of efforts among universities and institutions of higher learning in the State. As a corollary to this the universities themselves are in favour of constituting planning, coordinating and evaluation committees representative of various departments. These will maintain continuous planning and evaluation. The faculties/schools/divisions/departments will also have representative committees for various purposes and thus the process of participative management and democratization will be strengthened. The Committee recommends that these committees be created immediately. The proposed amendment to the bill also provides for recognition of autonomous colleges, to enable the universities to give status of autonomous colleges to deserving institutions within their respective territorial jurisdiction, and setting up of a council of affiliated colleges for the academic inspection of affiliated colleges.

It is also proposed to run intermediate/junior colleges as independent institutions in the course of next five years. This type of education will have two distinct objectives namely (1) to provide facilities of transfer of students to university courses of study (2) to offer diversified courses leading to either self employment or employment for middle level responsibility in trade, commerce, industry or government service. It is also envisaged to conduct manpower surveys before opening of employment oriented courses in junior colleges and that inputs be regulated in terms of employment potential in the area. There shall be a suitable blend of professional and general education so as to enable the products of the system to be self-employed or to occupy positions of managerial responsibility in due course and also facilitating migration from one State to another in later life. In such courses broad general skills will be developed so as to enable adaptation to emerging patterns of new technology rather than give narrow professional ability.

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- 10. As regards student participation it is proposed to give suitable representation for students in colleges and universities in important bodies like staff/students council, the senate, academic council etc.
- 11. In the development of higher education in the state the new Central University at Hyderabad has a key and difficult role to play. The Committee met Dr. Gurbax Singh, Vice-Chancellor, Hyderabad University on 26th January, 1975 and discussed with him generally the objectives and programmes of the new Central University. The Committee is of the view that great thought and caution are necessary in planning the courses at the new university, in view of the fact that the universities in the state particularly Osmania University at Hyderabad have ample facilities for expansion at marginal cost. Though this is outside its purview, the Committee ventures to suggest that the new Central University should so plan its courses as not to duplicate those already taught in the State Universities. For this and other reasons the committee suggests that the Vice-Chancellors of the universities in the State should meet regularly and in association with the education authorities of the State and U.G.C. plan jointly for the future as well as exchange information regularly on the present progress.
- 12. The Committee was gratified to note the general recognition by the academic community in the State for the need to co-relate research with National & State requirements and importance of inter-disciplinary approaches and cooperation between the departments. There is an acceptance of the need for experimentation in such matters as internal assessment, tutorial systems and formation of schools and centres rather than rigid departments. This will also reverse the enormous in-breeding characteristic of most of the existing departments.
- 13. One of the urgent problems relates to the demand for more fellowships even within the plan allocation, since the total fellowships available at present from all sources are not commensurate with requirements. The Committee is in full sympathy with this demand and has provided for some fellowships within the plan allocation. There should be a minimum of atleast one research fellowship per department per year. This will encourage the better quality, academically oriented students to remain in the field of scholarship. Such fellowships will be ordinarily tenable at the parent university. But it might

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also be given to a student who wishes to pursue research in another university where greater expertise in a subject is available (since this is not feasible within the plan allocation the Committee had to be content with providing a few fellowships to the departments for the duration of the plan as a whole).

14. It is hoped that these fellowships may be distributed judiciously on academic grounds and that bright scholars regardless of caste, community, language and religion will be attracted and retained for research. About 50% of such fellowships should be earmarked for 'outsiders'. The sons of the soil theory is unacceptable in the realm of higher education. In this connection the Committee favours steps to provide for removal of the exemption from the Presidential Order which restricts admission to students of the area and therefore leads to duplication of departments and courses. The Committee was not for example in favour of strengthening departments of library science and postgraduate courses on the subject in each of the three universities, but perforce has to recognise the strength of the argument that students from other areas cannot secure admission in the universities at present.
15. The Committee supports the strong plea given by the Universities in regard to providing funds for publication within the plan allocation. Many deserving manuscripts and research work do not get published due to paucity of resources. This deserve support from the U.G.C.
16. The Non-teaching staff also require some consideration from the UGC. The scales of pay of this category are pretty low in the State and with mounting prices and lack of adequate facilities find living conditions hard. Although it is not possible to meet all reasonable demands even in regard to academic improvement, the committee recommends some provision for staff quarters atleast as a token of UGC's recognition of the services of the non-teaching staff. It is not enough to multiply universities. The existing institutions must be stabilized and strengthened at every level.
17. At the three Postgraduate Centres the Committee noted a strong sense of grievance that they were being treated as annexes by the parent university, precluded from initiating new courses and prevented from making their own appointments. As one professor complained

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the staff of the Postgraduate Centres were treated as second class citizens. This is obviously an unhealthy state of affairs for both the present and the future. The Committee recommends that these Centres may have their own Boards of Studies to start with, with a different set of experts than from the parent universities and should function as autonomous units and not as replicas of the mother universities. Diversification and attention to local needs, and not duplication, should be the guidelines of development of these centres. They will then not only have initiative and inherent strength but will also be able to contribute to improvement and modernisation of the colleges in the neighbouring districts. Ultimately they could become affiliating universities. For the present the Committee suggest that a pro-Vice-Chancellor be appointed for each Postgraduate Centre.

18. There is a lot of enthusiasm and pressures and public opinion in favour of declaring the Postgraduate Centres at Guntur, Warangal and Anantapur as Universities. It was impressed upon the Committee by various delegations and representative groups that the contribution of the State to the Central Exchequer by way of Central Excise and other duties are quite substantial and that the Central authorities should take this into account and not take a negative attitude in regard to establishment of new universities in the States far away from the Capital. It was pointed out to the Committee that financial constraints did not come in the way of the Centre in revising the scales of pay of staff in central universities, Delhi colleges and setting up the central university at Hyderabad. The Committee forwards these view points without comment.
19. There are some general comments pertaining to all the three universities and Postgraduate Centres which the Committee would like to make before considering the specific requirements of each institution. There is no clear understanding of the semester system, the tutorial methods and internal assessment even where they are being tried and it seems necessary for the University Grants Commission to take measures to explain these clearly before they are introduced or where they have already been introduced. More specifically there seems to be little awareness among many teachers of how a tutorial essay should be written and a tutorial conducted. There is still an overwhelming reliance on excessive hours of teaching rather than encouragement of students to read on their own.
20. There is a great need for strengthening general facilities in the way of equipment. Duplication has to be avoided. The committee recommends that every university has a Central Instrumentation Laboratory where costly and sophisticated equipment

used by various departments can be housed and maintained. These laboratories will be staffed by qualified Instrumentation Engineer/Scientist and other supporting staff. Equipment regularly housed in a Department need not, of course be transferred.

21. Every where the Committee found that the Central Libraries were ill equipped and particularly in the Social Sciences, out-dated. The collection of books tends to be small and often includes more material at the popular level than books of specialised interest published recently. The libraries should be encouraged to buy more books on the Central areas of research and teaching in order to make recent 'Core' knowledge available. There is also in most cases an insufficient base in the libraries for research interests. This inadequacy relates not only to books but also to subscriptions to specialised journals and acquisition of back number of established journals. UGC will have to give priority to the building of these libraries and making them adequate for Postgraduate teaching and advanced research. The question of departmental libraries is one which has to be answered on the basis of the local context. As all the six institutions visited in Andhra Pradesh have a Campus and the component departments are as widely distributed, most books and journals should be kept in the Central Library, and only duplicate text-books and journals for a limited loan period housed in the departments.

22. The distribution between social sciences and the humanities does not seem to be clearly understood and in fact, in one university they are all grouped together in a compendious faculty of arts. This should be clarified and separate faculties of social science and the Humanities created. This would in itself help to remedy a major weakness in many departments of subjects relating to social sciences i.e. out of date syllabuses. Now it seems necessary to review the courses, syllabus and reading lists and bring them abreast of modern knowledge. The Boards of Studies should also be broadbased and even if members from distant areas are unable to attend, their expertise can be tapped. The formulation of inter-disciplinary courses should be encouraged. The M.A. syllabus in many departments needs to be repatterned with a view to integrating subjects such as history, politics, geography and economics towards the social sciences and orienting the language departments towards a more precise involvement in linguistics and functional use of language studies. The repatterning



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- of courses should include the more recent interests. In inter-disciplinary approaches to these subjects.
23. In order to promote inter-disciplinary teaching and research, there needs to be greater collaboration between the various departments. The services of faculty members in other centres and departments could be utilised so as to avoid duplication of staff. At present, there are everywhere high walls between departments. This is particularly so among allied departments such as, Mathematics, Applied Mathematics and Statistics, Physics, Applied Physics and Nuclear Physics and Geology, Geophysics and Geography.
24. This collaboration could be initiated by having certain new courses generally taught by members of two departments e.g. the history and economics departments could collaborate in the teaching of Indian Economic, History and the History and Geography departments in historical geography.
- The Committee noted that in some social sciences and humanities departments there was a marked imbalance between the expertise possessed by the faculty and the courses taught. In the drawing up of courses and the recruitment of faculty members some relationship should be maintained.
25. The Committee suggested to teachers in all these institutions the rotation of headship of the department on every two or three years. We also recommend that all the members of the teaching staff should be involved in the working of a department and the planning of its future development. The Committee is glad to say that every where these suggestions were received favourably.
26. The teachers' association of the Andhra University drew the Committee's attention to the fact that the services of even confirmed teachers could be dispensed with by the university authorities after giving 3-6 months' notice. This is manifestly unfair to teachers and the Committee recommends to the UGC that the Andhra University should provide the basic security to teachers and the opportunity to defend themselves against charges before punitive action is taken.
27. The Committee also recommends that the clause regarding selection committee in the Andhra University act be amended so as to provide for selection committees for the recruitment of lecturers.

28. Since planning is a total concept involving not only formulation of programmes, projects and plans but also implementation and evaluation at regular intervals, it is suggested that a compact composite and representative machinery be evolved in the universities. This will help in identifying bottlenecks and delays at various stages and taking timely corrective measures in implementation according to time schedule, and the feed back would be useful to UGC on an annual basis to take stock of the situation. The UGC may evaluate the performance of the universities departmentwise every year and offer helpful suggestions to them for expeditious implementation of the plan.
29. The University may devise a method of setting up of departmental committees with a view to democratizing administration of the department. Students in the department should be consulted periodically to ascertain their needs and views on curricula teaching schedule etc.
30. Every five years there could be a review of the work of the teachers in the universities as is done in some of the CSIR laboratories and the Indian Institute of Science so that meritwise teachers are given encouragement and those not upto the mark may be identified and enabled to do better.
31. There could be a Library Committee consisting of teachers and students which may allocate funds for procurement of books and journals departmentwise.
32. In order to make available the services of eminent scholars a scheme of visiting professorship is recommended for which a lumpsum provision is made. This could be operated through joint consultation of the departments according to requirements.
33. The university departments may provide leadership for faculty improvement in the colleges for which some provision is made in the plan allocation.
34. It is also necessary to provide sabbatical leave for the staff of the university departments to enable them to visit other universities/institutions to carry out research work or writing books of standard value. The Committee recommends that the UGC may start a massive sabbatical programme for university teachers.

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35. In view of the need for strengthening research and taking into account the number of research fellowships available, the Committee recommends some fellowships to the department within the plan allocation.

36. At present there seems to be restrictions in some universities that only professors and readers shall be made research supervisors. This restriction should go so that competent lecturers with adequate post-doctoral experience and research publications are recognised as research supervisors.

37. The Committee records its sincere thanks and gratefulness to the State Government, the University authorities, the Vice-Chancellors, teachers, students and the administrative staff for the Co-operation and cordiality extended to the Committee during its stay in the State.

38. The Committee also expresses its thanks and appreciation to the State Government for associating the Education Secretary and the D.P.I. with the work of the Committee. This was very useful in clarifying the view points of the State Government and the UGC on important issues of development of high education in the State during the Vth Plan which will ensure expeditious implementation of various programmes.

Sd/-

1. Prof. S.Gopal.
2. Prof. R.S.Krishnan
3. Prof. A.K.Saha
4. Prof. J.K. Irani
5. Prof. A.C.Jain
6. Prof. R.Nagabhushanam
7. Prof. A.M. Sháh
8. Prof. P.R.Brahmananda
9. Prof. Romila Thapar
10. Prof. A.Gnanam
11. Prof. S.Barlingay
12. Shri I.C.Menon

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part I

DEGREE COLLEGE AS ON 30.9.1974

	Government.		Private		Total		Grand Total
	Men	Women	Men	Women	Men	Women	
<b>I. Andhra Univ.</b>							
1. Srikakulam	3	1	1	0	4	1	5
2. Visakhapatnam	1	0	5	2	6	2	8
3. East Godavari	5	1	8	1	13	2	15
4. West Godavari	4	0	9	3	13	3	16
5. Krishna	2	0	13	3	15	3	18
6. Guntur	2	1	13	2	15	3	18
7. Ongole	1	1	5	0	6	1	7
<b>Total:</b>	<b>18</b>	<b>4</b>	<b>54</b>	<b>11</b>	<b>72</b>	<b>15</b>	<b>87</b>
<b>II. Sri Venkateswara University.</b>							
8. Kurnool	3	1	3	0	6	1	7
9. Nellore	2	1	6	0	8	1	9
10. Guddapah	3	1	0	0	3	1	4
11. Anantapur	3	0	1	1	4	1	5
12. Chittoor	3	0	5	1	8	1	9
<b>Total:</b>	<b>14</b>	<b>3</b>	<b>15</b>	<b>2</b>	<b>29</b>	<b>5</b>	<b>34</b>
<b>III. Osmania Univ.</b>							
13. Hyderabad City	27	1	27	7	29	8	37
14. Hyderabad Distt. City	0	0	2	0	2	0	2
15. Medak	1	0	1	0	2	0	2
16. Nizamabad	2	0	3	2	5	2	7
17. Mahaboobnagar	2	0	4	0	6	0	6
18. Nalgonda.	2	0	3	0	5	0	5
19. Warangal	1	1	3	1	4	1	5
20. Khammam	2	0	2	0	4	0	4
21. Karimnagar	3	1	1	0	4	1	5
22. Adilabad	3	0	0	0	3	0	3
	<b>18</b>	<b>3</b>	<b>46</b>	<b>10</b>	<b>64</b>	<b>13</b>	<b>77</b>
<b>Andhra Univ.</b>	<b>18</b>	<b>4</b>	<b>54</b>	<b>11</b>	<b>72</b>	<b>15</b>	<b>87</b>
<b>Sri Venkateswara University</b>	<b>14</b>	<b>3</b>	<b>15</b>	<b>2</b>	<b>29</b>	<b>5</b>	<b>34</b>
<b>Osmania University</b>	<b>18</b>	<b>3</b>	<b>46</b>	<b>10</b>	<b>64</b>	<b>13</b>	<b>77</b>
	<b>50</b>	<b>10</b>	<b>115</b>	<b>23</b>	<b>165</b>	<b>33</b>	<b>198</b>

Degree Colleges      Men      +      Women      =      Total  
 165      +      33      =      198

Sd/- for Director of Pub.  
Instruction.

UNIVERSITY GRANTS COMMISSION

-:S:-

Report of the UGC Visiting Committee to Osmania University .  
(Dates 20-21 January, 1975).

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The Visiting Committee constituted by the University Grants Commission to assess the development proposals of Osmania University visited Hyderabad and held discussions with University authorities and the State Government on 20th and 21st January, 1975. The Committee consisted of :

- 1. Professor S. Gopal,  
Chairman,  
National Book Trust,  
New Delhi. Convenor
- 2. Professor R.S. Krishnan  
Vice-Chancellor  
Kerala University  
Trivandrum.
- 3. Professor A.K. Saha,  
Department of Geology,  
Presidency College,  
Calcutta.
- 4. Professor J.K. Irani  
Head of the Deptt. of Commerce  
Mysore University.
- 5. Professor A.C. Jain  
Department of Chemistry  
Himachal Pradesh University,  
Simla.
- 6. Professor R. Nagabhushnam  
Department of Zoology  
Marathwada University  
Aurangabad.
- 7. Professor A.M. Shah  
Department of Sociology  
University of Delhi  
Delhi-7.
- 8. Professor P.R. Brajmanada  
Economics Department  
Bombay University  
Bombay-29.

contd....

## Part-II.

-:2:-

9. Professor A. Gnanam  
Department of Biological Sciences  
Madurai University  
Madurai-21.
10. Professor S.S. Barlingay  
Department of Philosophy  
Poona University  
Poona.
11. Professor Romila Thapar  
Centre for Historical Studies  
Jawaharlal Nehru University  
New Mehrauli Road  
New Delhi-57.
12. Shri M.V. Rajagopal  
Education Secretary  
Government of Andhra Pradesh.      Nominee of Andhra Pradesh Government
13. Shri I.C. Menon  
Deputy Secretary  
U.G.C., New Delhi.      Secretary of the Committee.

The University was established in 1918. The University has seven faculties.

The faculty of Science has 13 departments with enrolment of 519 (i) department of Physics, (ii) Department of Chemistry, (iii) Department of Botany ; (iv) Department of Zoology, (v) Department of Geology, (vi) Department of Genetics, (vii) Department of Geophysics, (viii) Department of Mathematics, (ix) Department of Statistics, (x) Department of Bio-Chemistry, (xi) Department of Astronomy, (xii) Department of Geography, (xiii) Department of Microbiology (New Department).

There are 5 departments in the faculty of social sciences with enrolment of 595 ; (i) department of Economics (ii) Department of History (iii) Department of Library Science, (iv) Department of Political Science (v) Department of Psychology, (vi) Department of Public Administration, (vii) Department of Sociology, (viii) Department of Geography.

The Faculty of Arts has 18 departments : (i) Department of Arabic, (ii) Persian, (iii) Sanskrit, (iv) English, (v) Hindi, (vi) Kannada, (vii) Linguistics, (viii) Marathi, (ix) Tamil, (x) Telugu, (xi) French , (xiii) German, (xiv) Russian, (xv) Journalism, (xvi) Philosophy, (xvii) Indology. (xviii) Islamic Studies.

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Part-II

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The Faculty of Commerce has two departments (i) Commerce, (ii) Business Management.

The Faculty of Education has one department (i) Education.

The faculties of Technology, Engineering, Medicine, Ayurvedic and Unani do not come under the purview of the present Committee.

1. DEPARTMENT OF MATHEMATICS:

The department has 1P, 5R and 3L. This department is now running two M.A./M.Sc. courses, one in Mathematics with five electives and one in Applied Mathematics with two special subjects. The intakes per year for the above two courses are 36 and 30 respectively. There are at present 5 research scholars working for the Ph.D. the research output from the department is 18 Ph.Ds and 50 papers during IV Plan. The department should be strengthened with the addition of one professor in Applied Mathematics and two more lecturers one in fluid hydrodynamics and the other in algebra.

Recommendations:

Staff : 1P, 2L

Books & Journals : 1.00 lakhs.

Scholarship : 1000.

There is no use of increasing the intake for the above two courses as the students complain of want of suitable job opportunities for them.

2. DEPARTMENT OF STATISTICS:

The department has 2R, 6L, 2A.L. The department is now running two courses - M.A. and M.Sc. with an intake of 30 students per year for each course. There are at present 3 research scholars and the average number of Ph.Ds produced is 3 and the number of research publications is only 10 during IV Plan. This department is in existence for the past eight years, the professor's post has been vacant and attempts should be made to fill it immediately. The department is giving lectures to students of the genetics and economics departments. This type of inter-disciplinary activity should be encouraged and strengthened.

The University has proposed to start a postgraduate course in Applied Statistics. This will be a very desirable course and can be started provided qualified staff can be appointed. The staff required are 1P, 1R and 1L all specialised in Applied Statistics. With the addition of the applied statistics staff, it will be possible for the department to cater to the needs for lectures of other departments in the faculties of social sciences and biological sciences.

The department should be treated as a service department for all. This department should be consulted for lectures in Statistics for sister departments for design of the enquiry/survey and later statistical analysis for all experimental research or survey work carried on by other

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departments of the university. The creation of a survey unit in the department of Statistics would be a very useful step in the interdisciplinary collaboration. Appointment of statisticians in other departments should be discouraged.

Recommendations:

- Staff : 1P ,1R and 1L
- Books & Journals: Rs. 1.00 lakhs.
- Equipment :Rs. 1.00 Lakh ( for the purchase of calculators etc.)
- Followships : 1.

3. DEPARTMENT OF PHYSICS:

The Department of Physics is a very well established department with a creditable record of research and teaching. At present the department is running:

1. M.Sc. course of two year's duration with an intake of 45 students each year. Five special subjects are offered :- (a) Molecular Physics, (b) Solid State Physics, (c) Nuclear Physics, (d) Electronics and (e) Material Science.
2. One-year post M.Sc. refresher course for college teachers. This will be terminated shortly.
3. One-year post M.Sc. diploma course in Applied Electronics with an intake of 6 students per year, which has been started recently.

The major areas of research are molecular physics and solid state physics. Research is also carried out in nuclear physics. The average number of research publications from the department is about 40 per year. Valuable contributions have been made from the department in the fields of Molecular and Solid State Physics.

At present the permanent staff strength of the department is 2 professors, 6 readers and 15 lecturers. The number of research scholars working for the Ph.D. degree is 22 and the average outturn of Ph.Ds is about 6 per year.

The department has given proposals for strengthening and consolidating the facilities for research in the existing fields and also for starting a M.Tech. course in Applied Electronics. These are recommended for acceptance:

Recommendations:

- Staff : 2P (1 Electronics, 1 Solid State Physics)
- 4R (Two in Electronics One in Solid State Physics, One in Nuclear Physics)

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Equipment : Rs. 5.00 lakh (for strengthening the existing lines of investigation).

Rs. 3.00 (for the Applied Electronics courses)

Books and Journals : Rs. 1.00 lakh.  
Fellowships : 3.

With the increase in staff, it will be possible to nearly double the intake of students for the M.Sc. courses.

As the department is having a large number of research scholars, it is necessary to provide at least 3 fellowships. There is no space problem for the department of Physics.

4. CENTRE FOR ADVANCED STUDY IN ASTRONOMY:

This department was started in 1959 and later developed as a Centre for Advanced Study in Astronomy in 1964 with the provision of an observatory about twenty five miles away from the University, with a financial outlay of Rs. 30 lakhs. In this Centre, the staff position is as follows:

1P, 1R (vacant) and two lecturers, while the observatory staff position 1 Astronomer, 3 Associate astronomers of which one is vacant, and two assistant astronomers. Apart from the above, there is a combined post of Director of the Observatory and Head of the Department.

The Department is running a three-year M.Sc. course in Astronomy for which the sanctioned strength is 12. But the present strength in the third and second year classes is 4 each, while in the first year the strength is 7.

The course is run both by departmental staff as well as the observatory staff. The course does not appear to be popular and only students with scholarships are found to complete the course, the others dropping off in the first year itself. This is a very unsatisfactory state of affairs. There are three courses of action possible (i) the course can be discontinued and the department may concentrate on research, (ii) the duration of the course may be reduced to two years, and thereby the course made more popular (iii) the number of scholarships increased to 12 so as to cover the sanctioned strength. It may be better to adopt the second course of action. The two-year general course can be followed by one-year post-M.Sc. specialised course for which all the students can be given scholarships.

The research output is rather small. The number of Ph.Ds turned out during the past ten years is only 2. The number of research scholars is 8. The research output is not commensurate with the money invested in the Centre, viz. Rs. 30/- lakhs. It may be advisable to appoint an expert committee consisting of astronomers to review the work.

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A complaint was made by the department about the non-availability of facilities of the computer in the Engineering College. They had often to make use of the computer of the Regional Research Laboratory, Hyderabad. It is better that the University Computer is made available to all departments of the University even if it becomes necessary to run more than one shift. The Centre may be granted 3 Junior Research Fellowships.

Recommendations :

Equipment : Rs. 1.00 lakh  
Books & Journals Rs. 1.00 lakh  
Fellowships : 3.

5. DEPARTMENT OF CHEMISTRY:

This department is one of the outstanding departments which is receiving Special Assistance of UGC. The department have 3P, 12R, 7L besides 3R 2L under the UGC Special Assistance programme. Enrolment for M.Sc. (Prov.) is 45 and M.Sc. (Final is 35). There are 34 research scholars working at present. Number of Ph.Ds during the last 10 years is 30. Number of papers published 190 during the same period. Electives under Organic Chemistry are : (i) Dyes Drugs and Intermediates, (ii) Bio-natural products, (iii) Explosives. Electives in Physical Chemistry are: (i) Catalysis, (ii) Nuclear Fuels. The department started two more specialisations in Physical Organic, Inorganic/Analytical in 1973. The department intends starting two more specialisations in M.Sc. (final) (i) in high polymers, (ii) agro-chemical and pesticides ; both the new specialisations are of current interest and need encouragement.

Recommendations:

Staff 1P, 1R.  
Equipment :Rs. 4.00 lakhs (Decoupling Units, Oscilloscopes, Spectroscopes, Fluorometer Attachment, Special Glasswares photo Chemicals etc.). Fellowships-4. Books & Journals: Rs.2.00 lakhs.

6. DEPARTMENT OF BIOCHEMISTRY :

The department has 1P, 2R, 2L. Enrolment for the two years M.Sc. Biochemistry is 12. The Department conducts Bio-Chemical and Bio-Physical methods for M.Sc. Microbiology students which has an enrolment of six and also conducts courses for M.Sc. Bio-Sciences which has an enrolment of 12. Besides imparting instruction for doctoral students in Biochemistry, Ph.D. programme has started in 1968-69 and 4 candidates have been awarded degrees. This is one of the active departments and has a competent faculty. The department interact with the sister Biology Departments like Botany, Microbiology, Genetics etc. The department wants to start a one-year diploma course in Clinical Biochemistry to train personnel for surveys in suburban and rural areas.

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Requirements of preparative refrigerated Electronic, Centrifuge and Electronics Absorption Spectrometers are provided in Central Instrumentation facilities for use of various departments.

Recommendations:

Staff: 1P, 2R (at least one of the three should be in Plant Biochemistry)

Equipment :Rs. 4.00 lakhs.

Books & Journals :Rs. 2.00 lakhs.

Fellowships : 2.

Additional Space : Rs. 1.5 lakhs ( UGC Share).

7. DEPARTMENT OF BOTANY.

The Department of Botany has been in existence for several years with a set of competent and qualified staff (2P, 1R, 5L). Enrolment for M.Sc. is 74 and there are 30 research scholars in the department. However, there seems to be some over specialisation in certain areas alone such as Cytogenetics. The M.Sc. Botany course currently taught is having emphasis on the descriptive and classical side. There is a need to strengthen on the experimental aspects of Botany. In order to gain a well-balanced strength over the entire spectrum of Botanical Sciences, the department may employ a few more specialists in the areas of Plant Physiology. They should incorporate a course in Biochemistry and utilise the help of the Biochemistry Department more. A post of a Professor in an experimental area like Plant Physiology may be created so that he will be able to form the nucleus and build around equipment and facilities. The department seems to have adequate space for equipment and a sum of Rs. 300 lakhs can be allotted for equipment and Rs. 1.00 for books and journals. For effective teaching they also need a small garden and a green house for which a sum of Rs. 1.00 lakh can be provided. The proposed course on M.Sc. Food Science need not be taken up for the present. To give a broad base to the department and strengthen the experimental side of the subject, plant physiology should be developed.

Recommendations:

Staff : 1P.

Books : Rs. 1.00 lakhs.

Equipment :Rs. 3.00 lakhs.

Garden and Green House :. Rs. 1.00 lakh.

Fellowships : Two.

8. DEPARTMENT OF ZOOLOGY.

The present staff of the department consists of 14 members (2P, one in Protozoology and another in Helminthology) 9R and 3L). 36 students are admitted for M.Sc. (Prev.). At the M.Sc. final the department offers five special subjects viz. Helminthology, Protozoology,

Fishery Science, Entomology and Animal Physiology. The major part of the research is centered round the traditional morphological studies of Helminth and Protozoan parasites. Only recently some attention has been focussed to probe into experimental part of the parasitology. Even though there are 14 staff members, from the information supplied by the department hardly 6 are engaged in active research and guiding students for Ph.D.

During the fifth plan the intake of the department could be increased to 45 commensurate with the facilities. One post of Reader in Animal Physiology and one lecturer and 1P (Endocrinology/Physiology) may be approved. The Committee is not in favour of a new department of Animal Physiology, since this could be developed as a unit in the Zoology department interacting with other areas of specialisations.

Recommendations:

- Staff : 1R, 1R and 1L
- Equipment :Rs. 3.00 lakhs
- Books & Journals :Rs. 0.50 lakhs
- Followships :2.

9. DEPARTMENT OF GENETICS:

Established as a section in 1961 with support from Atomic Energy Commission, it became a full fledged department during the fourth plan. The department has 2P, 5R and 3L and has 24 research scholars. The department is modern and progressive, and the faculty have several research activities. The M.Sc. course in Genetics has restricted scope for employment in the country. The department should take classes in Genetics for PG students of Botany, Zoology, Biochemistry, etc. and offer Post M.Sc. diploma/pre Ph.D. programmes for genetics analysts, special technicians etc. and form part of the School of Bio-Sciences. In addition they may organise courses on all-India basis at M.Phil. level.

As this is a very promising department in terms of research and advanced post M.Sc. teaching the following support is recommended.

Recommendations:

- Staff : 1P (Animal Genetics)
- 1R (Plant Genetics)
- 1L
- Equipment :Rs. 2.50 lakhs.
- Books & Journals :Rs. 1.00 lakhs.
- Animal House Improvements :Rs. 1.00 lakhs.
- Green House :Rs. 0.50 lakhs.
- Followships :2.

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Part-II.

-:9:-

10. DEPARTMENT OF MICROBIOLOGY:

This is a new department with one Reader and has started M.Sc. programme for Microbiology.

Recommendations:

Staff : 1P (Microbiology)  
1R  
2L

Equipment :Rs. 2.00 lakhs.  
Books & Journals :Rs. 0.50 lakhs.  
Fellowship :1.

11. SCHOOL OF BIO-SCIENCES.

Since Osmania University has Botany, Zoology, Biochemistry, Microbiology and Genetics Departments they may group these divisions into a School of Biological Sciences. They can also develop a common core programme for all the major branches for 1 year and thereby avoid duplication of work. They can, however, diversify in the II Year with a wide choice of courses so that students can choose and specialise. The existing branches of Biology have enough of infrastructure to sustain such an idealized course programme. They can also have a common pool of instruments common pool of library facility and a common set of teaching laboratories. It should not be difficult for them to omit some of the redundant course and thereby relieve the work load of the faculties in teaching and provide time to devote for research. Hence their venture on the M.Sc. Biology programme and on the establishment of a separate Department at a cost of Rs.12 lakhs may be dropped. One of the Professors from the Divisions would in turn acts as the Convenor/Chairman/Co-ordinator of the School for a period of one and two years.

12. DEPARTMENT OF GEOLOGY:

The department of Geology is a well- established one and has a fairly good record of teaching and research. In recent years the department has done particularly good. Research work in the fields of Hydrogeology and Geochemistry. The Department has 1P, 6R, 8L. M.Sc. intake is 30. There is a strong demand for increased intake. Taking into account the available facilities the intake should not exceed 36 per annum. In order to cater to the ever-growing demand for advanced training in Geohydrology, Geochemistry and Mineral exploration one year Post M.Sc. courses in these topics should be started restricting admission to 8 to 10 students per year for each such course. These courses on hydrogeology and mineral exploration should be conducted jointly with the Exploration Geophysics Department.

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Recommendations:

Staff : 1P (Geochemistry)  
1R (Hydrogeology)

Equipment : Rs. 3.50 lakhs (including a vehicle with trailer for ground water work).

Books & Journals :Rs. 0.50 lakhs.

Followships :2.

The proposed Central Instrumentation Laboratory may acquire the following costly equipments (among others) which would be required by the staff and students of the department of Geology : Atomic Absorption Spectrophotometer; Infrared Spectrophotometer ; electron microscope, electron, microprobe.

13. CENTRE FOR EXPLORATION GEOPHYSICS:

The department is well equipped and it has highly qualified and competent staff doing valuable work in various fields of Applied Geophysics particularly in Borehole Geophysics, Groundwater geophysics and Palaeomagnetism, and geophysical instrumentation. The present staff is 1P, 5R, 10L, besides 9 posts are vacant. The department proposes to conduct one year post M.Sc. course in groundwater, geophysics, mining geophysics and borehole geophysics, not only for fresh M.Sc. but also for professional people. This would be useful. No extra staff is recommended but the existing vacancies should be filled. Since the centre has a Book Writing Project, which has been successfully implemented till now, a publication grant of Rs.25000/- may be approved. The intake of students for M.Tech. should remain at the present level.

Recommendations:

Equipment : Rs.3.00 lakhs

Books & Journals :Rs. 0.40 lakhs.

Followships: 2

Publication grant :Rs. 0.25 lakhs (since the centre has Book writing Project, a publication grant of Rs. 0.25 lakhs may be approved. This may be provided out of Rs. 2.00 lakhs recommended for all publications).

14. SCHOOL OF EARTH SCIENCE.

The Committee is of the view that a School of Earth Sciences may be formed with the two departments/divisions of Geology and Geophysics as constituent units with inter-departmental cooperation in teaching and research. The heads of the departments could be conveners/chairman of the School in alternate years. This will be useful in (a) developing common M.Sc. special papers/courses, such as

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hydrogeology and mineral exploration ;(b) developing some common post-M.Sc. diploma courses in Mineral Exploration and Hydrogeology ;(c) ensuring better utilisation of the equipment required in both the departments and (d) proposing and executing joint research projects.

15. CENTRAL WORKSHOP & COMMON INSTRUMENTATION AND SERVICES LABORATORY.

There is already a central workshop under the control of the department of Physics. It is hoped that this will serve all science departments in the matter of fabrication.

The establishment of a Central Instrumentation and Services Laboratory in the campus is a necessity. Costly instruments and equipment which are required by more than one department could be housed in this laboratory. A sum of Rs. 15.00 lakhs may be provided for purchasing certain major and costly equipment for the section like (Liquid Nitrogen Plant, Mass Spectrometer, Spectrophotometer, Ultra-centrifuge, Atomic Absorption, Spectrophotometer and pump, Neutron Generator Electron microprobe etc.). It is necessary to provide a new building centrally located among the Science departments for which Rs. 2.00 lakhs are required. Technically qualified staff may be provided for repair, maintenance of electronic and optional instruments in the centre, as well as, in the department. 1P/R (Instrument Technology); one scientist/junior engineer and 3 technicians. New designs and developmental work may also be taken up by the Centre.

A representative committee of the user departments may supervise the proper functioning of the Centre.

Recommendations:

Staff : 1P/R, 1L and 3 Technicians.

Equipment: Rs. 15 lakhs.

Building Rs. 2.00 lakhs.

16. DEPARTMENT OF GEOGRAPHY:

The department has 1P, 3R and 3L. Intake for M.A. 26. Research scholars 5 for Ph.D., 10 for M.Litt. In the department there is a strong focus on urban studies at M.A. and research levels. The centre for Urban research in the department proposes to run two PG Diploma courses (i) Metropolitan and Growth Centre Planning, (ii) Urbanization in developing countries. The department also proposes to start a M.Sc. course in Cartography.

Recommendations:

Staff: 1P, 1R, 1L

Books & Journals : Rs. 0.30 lakhs.

Equipment: Rs. 0.50 lakhs.

Fellowship : One.

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Part-II.

-:12:-

17. DEPARTMENT OF ECONOMICS :

The department has 3P, 2R and 4L. Enrolment is 80 for M.A.(Prev.) and M.A.(Final) is 126. M.Litt. 17. Research scholars 19. The department is one of the leading Economics Departments in the country and is receiving Special assistance from UGC. The department has a good reputation in the field of Growth theory and Economic Planning. In addition to 1P (General economic theory) & 1R in Monetary theory a Reader in mathematical economics with reference to input and output analysis, for the contemplated development in industrial economics, one readership in industrial economics and one lectureship in labour economics and one readership in international trade and one lecturer in international liquidity and international money may be approved. The Research materials Cell sanctioned during the fourth plan may be continued and assisted by UGC on the same basis as in the fourth plan (Rs. 20,000/-). But the documents accepted and generated by the same should represent not merely one particular view point/ theory but be more broad based. This could be ensured if in the preparation of materials the department could obtain suggestions from distinguished professors of other universities. The department may constitute a small advisory council of five members with some professors from other universities and the department should be in correspondence with other members from the universities, regarding the material to be prepared, processed and circulated.

Recommendations:

Staff : 1P (General economic theory)  
4R (Monetary theory, mathematical economics, industrial economics, international trade).  
Books & Journals: Rs. 0.50 lakhs.  
Fellowships : 3.

The request for a Journal of Economic Instruction is worthwhile pursuing but this could be considered by UGC under the Faculty Improvement Programme.

18. DEPARTMENT OF POLITICAL SCIENCE.

The department has 1P, 1R, 5L. Enrolment for M.A. 43 (Prev.) and 35 for M.A.(Final). M.Lit. 5, Research Scholars 17. The department wants to strengthen and diversify in the field of Political, Sociology, Political Economy and Developmental Politics and Administration, Research Methodology and Statistics. These could be achieved in a large measure through inter-departmental cooperation in teaching and research. Common problems can be attended to if various social science departments act under the umbrella of School of Social Science for which there is a convener or a chairman on a rotational basis, so that channels of communications and collaboration are opened among departments without affecting the autonomy of the departments/divisions.

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Recommendations:

Staff: 1P, 2R, 1L  
 Books & Journals :Rs. 0.50 lakhs.  
 Fellowships :2.

19. DEPARTMENT OF PUBLIC ADMINISTRATION.

The department has 1P, 2R, 4L. Enrolment M.A. 38. Research scholars 30. M.Lit. 14. Diploma in Local Self Government 15. The department has produced 7 Ph.Ds. The department wants to start a diploma in Personnel Management, but this could better be done at the department of Commerce. Proposed diploma course in Educational Administration may be undertaken in cooperation with the department of education and the department of economics.

Recommendations:

Staff: 2R  
 Equipment: Rs. 0.15 lakhs.  
 Books :Rs. 0.20 lakhs.  
 Fellowship: 1.

20. DEPARTMENT OF PSYCHOLOGY.

The Department has 1P, 2R (1 vacant), 2L. Intake for M.A. is 12. M.Litt. 1. Ph.Ds awarded during fourth plan four; Research fellows 4. The major area of research is developmental psychology with special emphasis on Adolescent Psychology. Experimental Psychology, Social Psychology. Psychology of Crime and delinquency. The department has recently set up an Extra Phonetics and Speech Pathology Laboratory.

Recommendations:

Staff : 2R (Industrial Psychology & Psychometrics)  
 Books & Journals :Rs. 0.50 lakhs.  
 Fellowship : 1.

21. DEPARTMENT OF HISTORY

The department has 1P, 3R, 1L. Enrolment in M.A. is 68. The syllabus may be redrafted in such a manner that the students obtain an integrated view of Indian history and are allowed an option of specialisation in the final year. The courses also require restructuring to enable depth studies involving a historical interpretation rather than long, general survey courses as at present.

Osmania University would appear to be a good base for the development of specialisation in art history located as it is in the proximity of a range of important monuments and museums. It may,

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therefore, be suggested that some emphasis might be given to art history course at the University. The University may also provide museology as an optional of the History course. The committee recommends that for the purpose the chair in Indology (at present vacant) be transferred to this department. The location of the State Archives at Hyderabad could also be used effectively for development of cooperation in Modern History.

Recommendations:

Staff : 1P (Modern, Social and Economics History)  
1L ( Medieval Indian History).

Books & Journals:Rs. 0.40 lakhs.  
Fellowships :1.

22. DEPARTMENT OF EDUCATION.

The department has 2P (1 vacant), 7R (3 vacant) and 7L. Enrolment 153 for B.Ed., 30 for M.Ed. The UGC had approved assistance towards the end of the fourth plan for development of the department. This could not be implemented and will now be taken up during the fifth plan.

Recommendations:

Staff : 1P, 3R.

Non-recurring.

Books and Journals :Rs. 0.20 lakhs.  
Laboratory Equipment :Rs. 0.12 lakhs.  
Furniture :Rs. 0.15 lakhs.  
Building :Rs. 1.65 Lakhs ( 50% UGC share 82,500).  
Research Support :Rs. 0.10 lakhs.  
Fellowship :1.

23. DEPARTMENT OF PHILOSOPHY.

The department has 1P, 2R, 3L. Enrolment for M.A. is 11. Six lecturers promoted as readers are in constituent colleges (according to the old rules, lecturers automatically become readers when they reach the maximum of the lecturer's scale). At present Sri Aurobindo's Philosophy is the main interest of the department. Such over-compliance should be restricted and other branches of philosophy also developed. The department should strengthen its teaching, revise its syllabuses and make it more relevant to society and social progress.

Recommendations:-

Staff: 1R (Symbolic Logic/Philosophy of Science)  
Books & Journals :Rs. 0.50 lakhs.  
Fellowship : 1.

24. DEPARTMENT OF COMMERCE:

The department has 1P, 1R, 3L. Intake 40 for M.Com., M.Litt.4, Ph.D.2. The department intends starting (i) one year postgraduate evening course in industrial relations jointly with the department of Psychology, (ii) one year PG diploma course in taxation, (iii) two years master's degree course in banking and finance.

Recommendations:

Staff : 1P (Part time visiting expert)

Books :Rs. 0.50 lakhs.

Equipment :Rs. 0.20 lakhs.

Fellowships :1.

The proposal of the department of Public Administration to start a diploma in Personnel Management overlaps with that of the Commerce Department, but that department may cooperate with the Commerce Department in running the course.

25. DEPARTMENT OF SOCIOLOGY:

Established in 1946 the department was oriented initially towards social and cultural anthropology but gradually the orientation towards social anthropology was almost completely eliminated with the change of Heads of Departments. The Department should inject more of social and cultural anthropology. The University may see that sociology is not mixed up with social work on the one hand and physical anthropology on the other as it has happened in several universities in the State and in the country.

The department has one professor, three readers (one vacant) and two lecturers. Two of the readerships are 'Personal Readerships' and will be reverted into lecturerships when the present incumbents vacate. This is a carryover of the past when under the rule of the Nizam, lecturers on reaching the maximum in the scale used to become readers automatically without selection. This is a major source of weakness. The readers do not have doctorate degrees and their research output is meagre. It is necessary to strengthen M.A., M.Litt. and Ph.D. programmes by recruiting talented staff. It is not desirable to go in for fancy optional courses or for many specialisations. One readership is recommended. The vacant post of reader should be filled early. At the time of recruitment of readers the emphasis should be on talent rather than on one specialisation or another.

Recommendations:

Staff: 1R.

Books & Journals :Rs. 0.50 lakhs.

Desk Calculators:Rs. 0.15 lakhs.

Fellowships :2.

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Part-II.

--:16:--

The proposal of the university to start PG course of diploma course in Applied Sociology is not recommended. If the university wants to start courses in social work, it should do so by starting a separate department of social work rather than mixing it up with sociology under the name of applied sociology.

**26. DEPARTMENT OF JOURNALISM:**

The department was started in 1954 with a Postgraduate degree of Journalism in 1962. The M.J. course was started in 1974. Intake is 40 for B.J., and 20 for M.J.

Subject taught: M.J.--Theory of mass communication, communication research methods cum dissertation ; Investigative reporting and interpretation of Contemporary Trends ; Advanced Editing and Publication methods ; Professional seminars in journalism/mass communication.

Optionals:-- Specialised Writing and Magazine Journalism ; Advertising and Market Research ; Public Relations and Role of Information Agencies ; Radio and Television Journalism.

B.J.:- Principles of mass communication and history of cooperative Journal reporting and editing ; editorial and feature writing ; constitution of India and press laws ; Cultural heritage and socio-economic affairs ; Graphic and design and make-up of a newspaper ; Current affairs ; Problems of the local press ; Seminar on journalism and mass media.

Staff Position:-- The department has 1P (vacant), 1R, 3L. So far 350 graduates have been turned out.

There should be provision for visiting experts. The department has conducted research surveys on Mass Communication in collaboration with Institute of Asian Studies, Hyderabad. It would also be appropriate to think in terms of a bigger section of Mass Communication with a stronger professional and technical components of which journalism could be one part.

Recommendations:-

Staff: 1 Editorial Asstt. (Professors's post should be filled immediately and preference given to specialisation in financial/economic journalism).

Equipment: Rs. 0.40 lakhs.

Books & Journals :Rs. 0.20 lakhs.

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27. DEPARTMENT OF LINGUISTICS:

The department has 1P, 2R, 3L. Enrolment M.A.(Prev.) 25, M.A.(Final) 16, M.Litt. 2, Ph.D.2. This is one of the best departments in the University with a very distinguished faculty and a very extensive record of published research. The Committee recommends that the UGC gives this department special assistance. The department proposed to introduce diploma course in translation and training course in experimental phonetics and speech pathology. The department can service the other departments as far as its needs in Linguistics are concerned.

28. DEPARTMENT OF TELUGU:

The department has 2P, 3R, with an enrolment of 80 students for M.A. 19 for M.Litt. and Ph.D. during the fourth plan, 32 publications were brought out and 3Ph.Ds awarded. The department proposes to set up a folk arts museum.

Recommendations:

Books and Journals:Rs. 0.25 lakhs.  
Fellowships :1.

29. DEPARTMENT OF ENGLISH :

The department has 2P, 3R and 1L with an enrolment of 139. The department wants to start one year's diploma course and a six months' certificate course in spoken and written English.

Recommendations:

Staff: 1R and 1L  
Books : Rs.0.25 lakhs.  
Fellowship :1.

30. DEPARTMENT OF HINDI:

The department has 1P, 3R. Enrolment in 17 for M.A. Runs M.A., M.Litt. and Ph.Ds programmes besides oriental courses B.O.L., M.O.L. and diploma. There are 28 research scholars for Ph.Ds and 15 for M.Litt. The department wants to undertake research on: (i) Dakhini Language and literature, (ii) Comparative study of common trends in Hindi and Southern Indian Language. The department proposes to have a Tulsi Das Chair. It may seek grants from sources other than the UGC for this.

Recommendations:

Books and Journals:Rs. 0.25 lakhs.  
Fellowship : 1.

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31. DEPARTMENT OF URDU.

The department has 1P, 4R and has an enrolment of 80 for M.A., 13 for M.Lit. and 32 for Ph.Ds. Twelve Ph.Ds were awarded during the fourth plan. The department wants to take up the study of Dakhni(Urdu) as a research project. This may be considered by the Research Council of UGC.

Recommendations:

Staff : 1P, 1R, 1L.  
Books & Journals :Rs. 0.10 lakhs.  
Fellowships :1.

32. DEPARTMENT OF ARABIC :

The department has 4R, 2L. Enrolment 57. Students for M.A.(Prev.) and 40 for M.A.(Final).

Recommendations:

Books and Journals :Rs. 0.10 lakhs.  
Fellowship :1.

33. DEPARTMENT OF PERSIAN STUDY:

The department has 2R and 1L. One post of Reader upgraded as Professor is vacant. There are 14 students for M.A.(Prev.) and 3 for M.A. (Final).

Recommendations:

Staff : 1R.  
Books & Journals :Rs. 0.10 lakhs.

34. DEPARTMENT OF ISLAMIC STUDIES :

The department has 1P (vacant, 2R and 2L (1L vacant). Enrolment 20 for M.A.(Prev.), 7 for Ph.D. for M.A.(Final), 7 for M.Litt. The main focus is on the fundamental beliefs of Islam and Islamic legal structure of historical and cultural development of muslim society upto 1258. It would be better to dissolve this department and transfer its members to the Persian and Arabic or History departments. The vacant professorship could be utilised for West Asian Studies. The departments of Persian and Arabic could then be grouped round here, and Osmania University could formulate a programme of area studies in West Asia.

Recommendations:

Books and Journals :Rs. 0.10 lakhs.  
Fellowship :1.

**35. DEPARTMENT OF SANSKRIT:**

The department has 1P, 1R, 7L (4 vacant). Enrolment for M.A. is 9 and there are 29 students for PG diploma in Sanskrit Senior and 10 for PG diploma in Sanskrit Junior.

**Recommendations:**

Books and Journals: Rs. 0.10 lakhs.

Followship: 1.

**36. DEPARTMENT OF INDOLOGY:**

Enrolment is 67. Staff 1R. Teachers from other departments take classes. It is not a very active department and it would be better to dissolve this department and attach its members to other departments e.g. Sanskrit, Philosophy, History. The kind of specialisation which the department of Indology should provide would be for more functional academically in the department. The Committee has already recommended that the Chair of Indology be transferred to the department of history and connected with a chair of ancient Indian history with special emphasis on art history.

**37. DEPARTMENT OF KANNADA, TAMIL & MARATHI :**

The department of Kannada has 1P, 2R and enrolment of 19 students. The department of Tamil has 1P, 1L. The department of Marathi has 1P, 1R and 1L and has enrolment of 10 students. A grant of Rs. 10,000/- for each of the above three departments is recommended. It will be better to have a School of Languages with sufficient autonomy for the concerned departments/divisions and provide for large number of electives at PG levels. One language as major and the other as minor so that competence in two languages could be acquired.

**Recommendations:**

Books and Journals: Rs. 0.30 lakhs.

**38. DEPARTMENT OF FRENCH, GERMAN & RUSSIAN:**

The department of French has 1R, 1L and has an enrolment of 10 students for first year diploma. Twenty students for second year diploma, 18 students for third year diploma. The department of German has 1P, 2L. The Department of Russian has 2R and 1L. Each of these departments may be given a grant of Rs. 5,000/- for books and Journals.

**Recommendations:**

Books and Journals: Rs. 0.15 lakhs.

39. DEPARTMENT OF LAW:

The department of Law has 1P (vacant), 6R (3 vacant), 3L and 1A.L.

<u>Enrolment</u>	<u>Ceiling</u>	<u>Actual Strength</u>
L.LB 1st Year	200	193
LLB. II Year.	300	278
LLB. III Year	300	180
LLM. (Prev.)	160	- Admissions are being finalised.
LLM. (Final)	120	28

For LL.M. the following specialisations are also offered.

(1) Jurisprudence, (2) Constitutional Law & International Law, (3) Personal Law, and (4) Mercantile Law. The department proposes to enrol 10 students for doctoral programme from 1975-76.

Recommendations:

Staff : The existing vacancies be filled early  
Books and Journals :Rs. 1.00 lakh.  
Equipment :Rs. 0.20 lakhs.

40. DEPARTMENT OF LIBRARY SCIENCE:

Started in 1959, the department offers PG diploma course. It was later converted to B.Lib. course. The present staff is 1R, 2L. Enrolment for B.Lib.(Sc.) is 40. The committee does not support the proposal for the introduction of M.Lib.Sc. course.

The Chief Librarian and other competent library staff may cooperate in B.Lib.Sc. teaching. The department should be housed in the university library.

Recommendations:

Equipment :Rs. 0.10 lakhs.  
Books and Journals :Rs. 0.25 lakhs.

41. CENTRAL LIBRARY:

A grant of Rs. 20.00 lakhs is recommended for the Central Library. The Committee is of the view that in the situation of the University, fragmentation of Library into departmental ones is neither academically sound nor desirable. Against the background of knowledge explosion and overlapping of fields of knowledge, it is necessary that the library should be a centralised and common facility for the academic community. However, departmental grants for books and journals are recommended with a view to meeting the specialised requirements of various departments.



It does not mean that these books and journals should be kept in the departments. Some books and a few journals may be obtained by the user departments at a time and returned to the library at regular intervals. Optimum utilisation of the library allocations could be made through a compact and representative library committee representing various departments including student representatives.

#### General Schemes:

One hostel to accommodate 100 Men students is necessary with an estimated cost of Rs. 6.00 lakhs with UGC share of Rs. 3.00 lakhs.

#### Research Scholars Hostel:

There are about 300 research scholars in the university and quite a large number of them are from outside the city, for whom there is great need for a hostel. One hostel to accommodate 100 research scholars at an estimated cost of Rs. 8.00 lakhs (UGC share Rs. 4.00 lakhs) is recommended.

There is no Faculty Club at present which may provide as an extension to the existing guest house estimated at Rs. 2.00 lakhs with UGC share of Rs. 1.00 lakh.

#### Staff Quarters:

In view of the acute shortage of accommodation and high rates of rents, the teaching staff is in dire need of some quarters. Fifty quarter (15P/R, 35L) are recommended at estimated cost of Rs. 24.00 lakhs with UGC share of Rs. 12.00 lakhs and for 40 quarters (Flats) for non-teaching staff estimated at Rs. 10.00 lakhs. U.G.C share of Rs. 5.00 lakhs is recommended.

#### Miscellaneous Schemes:

- a) Visiting Professorships: In order to avail of the services of experts from other universities in academic programmes, a provision of Rs. 2.00 lakhs is recommended for visiting professorships. This should be integrally related to the various programmes in the university departments and operated on the principle of complementarity.
- b) Faculty Improvement Programme: Since the university departments have agreed to help upgrade the competence of teachers from colleges, a lump sum provision of Rs. 10.00 lakhs is recommended with plan allocation in order to help the university to start the programme without delay.
- c) Fellowships: With a view to strengthening research in the university departments and to provide for a steady supply of doctorates, the committee is of the view that it is necessary to provide research fellowships during the fifth plan, for which a provision of Rs. 12.50 lakhs is made.
- d) Publications: With a view to encouraging publications of high quality research work, monographs and curricular materials etc. a provision of Rs. 2.00 lakhs is also recommended within the plan allocation.

Appendices I to V, .....

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Appendix I.

Part II

OSMANIA UNIVERSITY

SUMMARY OF SPILL OVER + BASIC + NEW ALLOCATION DURING FIFTH PLAN PERIOD

<b>A.</b>	<u>SPILL OVER.</u>	<u>Rs. in Lakhs.</u>
	(a) Buildings	Rs. 7.82
	(b) Staff	Rs. 0.97
		<hr/> Rs. 8.79 <hr/>
<b>B.</b>	<u>BASIC.</u>	
	(a) Books	Rs. 5.00
	(b) Equipment	Rs. 7.50
		<hr/> Rs. 12.50 <hr/>
<b>C.</b>	<u>NEW ALLOCATIONS:</u>	
	(a) Books.	Rs. 39.15
	(b) Equipment	Rs. 51.82
	(c) Buildings.	Rs. 30.825
	(d) Fellowships.	Rs. 12.50
	(e) Recurring.	Rs. 29.00
	(f) Misc. & other schemes.	Rs. 15.25
		<hr/> Rs. 178.545 <hr/>
	<b>TOTAL : A +B +C =</b>	<b>Rs. 199.835.</b>

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A. Buildings -II & III Plan Schemes.		Amount. Rs.	Remarks.
1.	Geology	24,016-00	
2.	Mens Hostel at the University Campus.	31,299-00	
3.	Mens Hostel at Nizam College.	23,411-70	
4.	Botanical Garden.	1,000-00	
5.	Geophysics.	1,932-28	
6.	Staff Quarters (30)	9,886-00	
7.	Library Building.	45,000-00	
8.	Staff Quarters (8 Readers)	9,075-15	
9.	Staff Quarters (1P,3R & 4L)	5,000-00	
		1,50,620-13	
<b>B. Fourth Plan Schemes.</b>			
1.	Statistics.	53,000-00	
2.	Geophysics.	16,000-00	
3.	Genetics.	50,000-00	
4.	Cobalt-60+ Source at Genetics.	51,000-00	
5.	Biochemistry	10,000-00	
6.	Stored Animal Rooms for Bio- Chemistry.	43,700-00	
7.	Fencing building for Plant Genetics.	35,000-00	
8.	Small House & Green House (Zoology)	35,000-00	
9.	Botanical Garden.	10,000-00	
10.	Women's Hostel.	30,000-00	
11.	Staff Quarters (Class III & IV)	30,000-00	
12.	Staff Quarters (11R & 19L)	2,00,000-00	
13.	Boy's Hostel.	45,000-00	
14.	Furniture for Old Hostel.	12,500-00	
15.	Hostel (19 students of Chemical	11,000-00	
		6,32,200-00	
			A+ B= 7,82,820-00 say Rs. 7,82 lakhs.
<b>C. Staff.</b>			
1.	Humanities.	7,017-26	
2.	Science.	90,371-06	
		97,388-32	
			C. 0-97 lakhs.

Grand Total: Rs 8.79 Lakhs

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Appendix III.

Part II

OSMANIA UNIVERSITY

Sl.No.	Department.	Staff.			
		P.	R.	L.	O.
1.	Mathematics.	1	-	2	-
2.	Statistics.	1	1	1	-
3.	Physics	2	4	-	-
4.	Chemistry	1	1	-	-
5.	Biochemistry	1	2	-	-
6.	Botany	1	-	-	-
7.	Zoology	1	1	1	-
8.	Genetics.	1	1	1	-
9.	Microbiology.	1	1	2	-
10.	Geology	1	1	-	-
11.	Central Instrumentation & Service-s Laboratory.	-	-	4	-
12.	Geography.	1	1	1	-
13.	Economics.	1	4	2	-
14.	Political Sc.	1	2	1	-
15.	Public Administration	-	2	-	-
16.	Psychology.	-	2	-	-
17.	History.	1	-	1	-
18.	Education	1	3	-	-
19.	Philosophy.	-	1	-	-
20.	Sociology.	-	1	-	-
21.	Journalism.	-	-	-	1
22.	English	-	1	1	-
23.	Urdu.	1	1	1	-
24.	Persian Study.	-	1	-	-

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17	31	14	6
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Part II

Appendix IV.

OSMANIA UNIVERSITY

Priorities

Sl. No.	Department.	Staff Strength.		
		I	II	III
1.	Mathematics.	1P	1L	1L
2.	Statistics.	1P	1R	1L
3.	Physics.	1P, 1R	1P, 1R	2R
4.	Chemistry	-	1R	1P
5.	Biochemistry	1R	1R	1P
6.	Botany.	-	1P	-
7.	Zoology.	1R	1L	1P
8.	Genetics	1R	1L	1P
9.	Microbiology	1P	1R, 1L	1L
10.	Geology.	1R	1P	-
11.	C.I.S.L.	5 others	-	-
12.	Geography	1R	1L	1P
13.	Economics.	1R, 1L	1P, 1R	1L, 2R,
14.	Political Sc.	1P	1R, 1L	1R
15.	Public Administration.	1R	1R	-
16.	Psychology.	1R	1R	-
17.	History.	1P	1L	-
18.	Education.	1R	1P	2R
19.	Philosophy.	1R	-	-
20.	Sociology.	1R	-	-
21.	Journalism.	1 other	-	-
22.	English.	1R	1L	-
23.	Urdu.	1R, 1L	-	1P
24.	Persian Studies.	-	1R	-

6P, 14R, 2L      5P, 10R, 8L      6P, 7R, 4L,  
6 others.

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Appendix V

STATEMENT SHOWING THE DETAILS OF ALLOCATION OF GRANTS TO OSMANIA UNIVERSITY DURING THE FIFTH FIVE YEAR PLAN PERIOD.

S.No.	Department	Books			Total	Equipment 100%			Total	Buildings			Share Total	Others 100%			Total	100% Fellows.
		I	II	III		I	II	III		I	II	III		I	II	III		
1.	Mathematics	0.50	0.25	0.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	1
2.	Statistics.	0.50	0.25	0.25	1.00	0.50	0.25	0.25	1.00	-	-	-	-	-	-	-	-	1
3.	Physics.	0.50	0.25	0.25	1.00	4.00	2.00	2.00	8.00	-	-	-	-	-	-	-	-	3
4.	Centres of Advanced Study in Astronomy.	0.50	0.25	0.25	1.00	0.50	0.25	0.25	1.00	-	-	-	-	-	-	-	-	3
5.	Chemistry.	1.00	0.50	0.50	2.00	2.50	1.00	0.50	4.00	-	-	-	-	-	-	-	-	4
6.	Biochemistry.	1.00	0.50	0.50	2.00	2.00	1.00	1.00	4.00	1.00	0.50	-	1.50	-	-	-	-	2
7.	Botany.	0.50	0.25	0.25	1.00	2.00	0.50	0.50	3.00	-	-	-	-	0.50	0.25	0.25	1.00	2
8.	Zoology.	0.50	0.20	0.25	1.00	2.00	0.50	0.50	3.00	-	-	-	-	-	-	-	-	2
9.	Genetics.	0.50	0.25	0.25	1.00	1.50	0.50	0.50	2.50	0.75	0.50	0.25	1.50	-	-	-	-	1
10.	Microbiology.	0.30	0.20	-	0.50	1.50	0.50	0.50	2.50	-	-	-	-	-	-	-	-	2
11.	Geology.	0.50	0.20	-	0.50	2.00	0.75	0.75	3.50	-	-	-	-	-	-	-	-	2
12.	Centre for Exploration for Geophysics.	0.50	0.10	-	0.40	2.00	0.50	0.50	3.00	-	-	-	-	-	-	-	-	2
13.	Central Workshop and C. I. S. L.	-	-	-	-	10.00	3.00	2.00	15.00	2.00	-	-	2.00	-	-	-	-	2
14.	Geography.	0.20	0.10	-	0.50	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	1
15.	Economics.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	1
16.	Pol. Science.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	1
17.	Public Administration.	0.10	0.10	-	0.20	0.10	0.05	-	0.15	-	-	-	-	-	-	-	-	1
18.	Psychology.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	1
19.	History.	0.30	0.10	-	0.40	-	-	-	-	-	-	-	-	-	-	-	-	1
20.	Education.	0.10	0.10	-	0.20	0.12	-	-	0.12	0.50	0.25	-	0.25	0.15	0.10	-	0.25	1
21.	Philosophy.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	1
22.	Commerce.	0.30	0.20	-	0.50	0.10	0.10	-	0.20	-	-	-	-	-	-	-	-	2
23.	Sociology.	0.30	0.20	-	0.50	0.10	0.05	-	0.15	-	-	-	-	-	-	-	-	1
24.	Journalism.	0.10	0.10	-	0.20	0.30	0.10	-	0.40	-	-	-	-	-	-	-	-	1
25.	Telugu.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	1
26.	English.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	1
27.	Hindi.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	1
28.	Urdu.	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	1
29.	Arabic.	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	1
30.	Persian Studies.	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	1
31.	Islamic Studies.	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	1
32.	Sanskrit	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	1
33.	Kannada, Tamil & Marathi.	0.20	0.10	-	0.30	-	-	-	-	-	-	-	-	-	-	-	-	1
34.	French, German & Russian.	0.10	0.05	-	0.15	-	-	-	-	-	-	-	-	-	-	-	-	1
35.	Law.	0.50	0.25	0.25	1.00	0.15	0.05	-	0.20	-	-	-	-	-	-	-	-	1
36.	Library Sc.	0.15	0.10	-	0.25	0.10	-	-	0.10	-	-	-	-	-	-	-	-	1
37.	Central Lib.	10.00	5.00	5.00	20.00	-	-	-	-	-	-	-	12.00	-	-	-	-	1
38.	Staff Qrs. (Teaching)	-	-	-	-	-	-	-	-	-	-	7.00	-	-	-	-	-	1
39.	Hostel for Res. Scholars.	-	-	-	-	-	-	-	-	-	-	1.50	-	-	-	-	-	1
40.	Mens Hostel.	-	-	-	-	-	-	-	-	-	2.00	1.00	-	-	-	-	-	1
41.	Ext. to Guest House.	-	-	-	-	-	-	-	-	-	0.25	0.25	-	-	-	-	-	1
42.	Staff Qrs, Non-Teaching	-	-	-	-	-	-	-	-	-	7.00	1.00	-	-	-	-	-	1
43.	Visiting Professorship.	-	-	-	-	-	-	-	-	-	-	-	1.50	0.50	-	2.00	-	1
44.	F.I. Programme.	-	-	-	-	-	-	-	-	-	-	-	4.00	3.00	3.00	10.00	-	1
45.	Publications.	-	-	-	-	-	-	-	-	-	-	-	1.00	0.50	0.50	2.00	-	1
Total:		20.70	10.70	7.75	39.15	31.27	11.30	9.25	51.82	4.25	14.575	12.00	30.825	7.15	4.35	3.75	15.25	46

University Grants Commission

- PART (III)

Report of the UGC Visiting Committee  
to postgraduate Centre, Warangal (Osmania  
University) - 22nd January, 1975.

The Committee constituted by the University Grants Commission to examine development proposals visited Postgraduate Centre, Warangal, on 22nd January, 1975 and had discussions with the University authorities, academic staff, representatives of students and teachers and citizens' committee at Warangal.

The Committee consisted of:-

- 1. Professor S. Gopal  
Member - UGC. Convenor
- 2. Professor R.S. Krishnan,  
Vice-Chancellor,  
Kerala University
- 3. Professor A.K. Saha,  
Department of Geology,  
Presidency College,  
Calcutta.
- 4. Professor J.K. Irani  
Department of Commerce  
Mysore University  
Mysore.
- 5. Professor A.C. Jain  
Department of Chemistry,  
Himachal Pradesh University,  
Simla.
- 6. Professor R. Nagabhushnam  
Zoology Department  
Marathwada University,  
Aurangabad.
- 7. Professor A.M. Shah  
Department of Sociology  
Delhi University,  
Delhi.
- 8. Professor A. Gnanam  
Department of Biological Sciences  
Madurai University.
- 9. Professor Romila Thapar  
Centre for Historical Studies  
Jawaharlal Nehru University,  
New Delhi.

- 10. Shri V. Ramachandran  
Director of Public Instruction  
Andhra Pradesh, Hyderabad.      Nominee of the State Government
- 11. Shri I.G. Menon,  
Deputy Secretary UGC.      Secretary of the Committee

Postgraduate Centre at Warangal was started during 1967-68 alongwith the other Postgraduate Centres at Guntur under Andhra University and at Anantpur under Sri Venkateswara University. This Centre is a constituent college of the Osmania University and the Head of the Centre is designated as Principal. To start with, Telugu, English, Mathematics and Chemistry were introduced and in 1968-69, five more subjects were added - Physics, Botany, Zoology, Public Administration and Commerce.

The Centre is situated in a campus of 400 acres. During the fourth plan the U.G.C. assistance was Rs.20.00 lakhs and Rs.25,00 lakhs came from the State Government. The UGC assistance was used for salaries of teaching staff, equipment, books and furniture, whereas the State Government share was used for the salaries of non-teaching staff, acquisition of lands for a hostel and temporary structures with water supply, electricity and roads. Later on the UGC raised its share to Rs.30.00 lakhs

On the whole the university centre has spent about Rs.30.00 lakhs for construction, some of them being temporary structures.

General Observations

Warangal is situated more than 150 miles away from Hyderabad and the P.G. Centre offers facility for postgraduate education for student in the five adjoining districts of Warangal, Karimnagar, Adilabad, Nalgonda and Khammam. The Centre should consolidate its present activities and have more facilities before it becomes a University. The Committee is of the view that various departments may be grouped together as the School of Languages, School of Physical Sciences, school of Bio-Sciences and the School of Social Sciences. This will ensure coordinated development and diversifications on desired lines:

The Committee is of the view that if the university departments are to guide the colleges in modernisation of the curricula and faculty improvement, it should become an affiliating type of University. The UGC may consider this aspect of development of colleges vis-a-vis the University before it finally takes a decision on the nature of the University in consultation with the State Government.



The University Grants Commission may also provide 'Unassigned Grant' separately to the Centre.

The Committee noted a tendency in most departments to duplicate work and courses at the Osmania University. Obviously core teaching has to be safeguarded, but duplication in specialisation should be avoided and more attention given to local problems.

1. Department of Physics:

The Department of Physics at this Centre is running M.Sc. course with an intake of 30 students a year. Two special subjects, viz., solid state physics and electronics are taught. The existing staff consists of one professor, two readers and five lecturers. There are at present two research scholars. The Professor and two Readers are well qualified to carry out research work of good quality provided facilities are given. It is, therefore, recommended that two more Readers be provided, a specialist in solid state theory and the other in solid state electronics. A sum of Rs.3.00 lakhs for equipment and a sum of Rs.1.00 lakhs for books are recommended. The State Government have already provided Rs.5.00 lakhs for the Physics building. One Fellowship may also be provided for the department. With the additional staff, the intake of students can be increased to 40 per year.

Recommendations:

Staff	2 R
Books	1.00 lakhs
Equipment	3.00 lakhs
Fellowship	1

2. Department of Mathematics.

The Department is now running M.A./M.Sc. course with an intake of 40 students a year. The research activity is not appreciable. The present sanctioned staff consists of one Professor(which is vacant), one Reader and four Lecturers. The Professor's post has to be filled up immediately. During the Fifth Plan period one Reader in Statistics and one Lecturer in topological dynamics are recommended. An equipment grant of Rs.50,000/- is recommended for the purchase of electronic calculators. A sum of Rs.1.00 lakh is recommended for books and journals: One fellowship is to be allotted for research scholars.

Recommendations:

Staff	1 R, 1 L.
Books	1.00 lakh
Equipment	0.50 lakh
Fellowship	1

3. Department of Chemistry

The Department has one Professor, one Reader, and six Lecturers with an enrolment of 25 for M.Sc.(Prev.) and 22 M.Sc. (Final). Specialisations are offered in Organic Chemistry and Physical Chemistry. One Reader in Inorganic Chemistry, one Reader in Phyto Chemistry, one fellowship, Rs.3.00 lakhs for equipment, Rs.1.00 lakh for books and journals may be sanctioned.

Recommendations

Staff	2 R
Books	1.00 lakh
Equipment	3.00 lakhs
Fellowships	1

4. Department of Botany:

The Department has one Professor, two Readers and four Lecturers with an enrolment of 24 for M.Sc.(Prev.) and 20 for M.Sc.(Final). The department offers specialisations in (1) Cytology and (2) Genetics. The proposal to specialise in plant Microbiology and Cell and organismal physiology is good, but the proposals to start a special branch in myco-physiology, and a department in Forestry need not be taken up. The forestry course could be dealt with more successfully by the agricultural university. For effective teaching of the existing Botany course a biochemist is required at least at lecturer's level who can be commonly used by both botany and zoology departments. One Reader (Physiology/Biochemistry) two lecturers and one fellowship may be provided. Rs.2.00 lakhs for equipment, Rs.1.00 lakh for books and Rs.0.50 lakh for Green House are recommended.

Recommendations

Staff	1R, 2L
Books	1.00 lakh
Equipment	2.00 lakhs
Fellowships	1
Green House	0.50 lakh

5. Department of Zoology

The Department has one Professor (Cell Biology), two Readers and five Lecturers. 30 students are admitted at M.Sc.(Part I) and at M.Sc.(Final), the Department offers two special subjects, viz., Cell Biology and Parasitology. There are eight full-time research workers mainly working in insect physiology and cell biology. So far, the department has not produced any Ph.D. There appears to be some duplication of special subjects between

## Part III

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the Zoology Department of Osmania University and its postgraduate centre at Warangal. It is worthwhile to start other specialisation instead of repeating what is being taught at the Osmania University Zoology Department. The Department is not having adequate equipment for research and the library is far from satisfactory. There is no animal house for carrying out experiments on live animals.

During the fifth plan the department needs to be strengthened with the following: This is recommended.

Staff: Readers - two (one in Comparative Endocrinology and in Cell Biology or Cell Physiology).

Equipment: Rs.2,00 lakhs

Fellowship 1

Animal House 0.50 lakh

Books & Journals 1.00 lakh

The botany & zoology deptts.

may pool their equipment

grants to have common instru-

mentation & equipment facili-

ties thereby ensuring coord-

ination & avoiding duplication.

6. Department of Commerce:

The department has one professor, one reader and two lecturers (one vacant) with an intake of 40 students. The department has two electives at present. Proposal to introduce three more electives viz., (1) Foreign Trade and Foreign Exchange, (2) Transport and Public Utility and (3) Organisation and Management of Small Industry or a Master of Science course in Business Finance. Two readers, one fellowship, Rs.40,000/- for equipment and Rs.1,00,000/- for books and journals may be sanctioned.

Recommendations:

Staff 2 R

Books 1.00 lakh

Equipment 0.40 lakhs

Fellowship 1

7. Department of Public Administration

The department has one professor, one reader, one lecturer and one Associate Lecturer. It has 9 students for M.A.(Previous) and 16 students for M.A.(Final). One Reader and one fellowship, Rs.1.00 lakh for books and journals are recommended.

Recommendations

Staff 1 R

Books 1.00 lakh

Fellowship 1

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8. Department of English

The Department has one professor, one reader and two lecturers. It has 25 students for M.A.(Previous) and 21 students for M.A. (Final). The department proposes to introduce one course in the teaching of English language, and another course in Comparative Literature. One Reader, one lecturer, one fellowship, Rs.0.15 lakh for equipment and Rs.1,00,000 for books and journals are recommended.

Recommendations

Staff	1 R, 1L
Books	1.00 lakh
Equipment	0.15 lakh
Fellowship	1

9. Department of Telugu

The Department has one professor, two readers and one lecturer. It has 20 students for M.A.(Previous) and 17 students for M.A.(Final). One Reader, one Lecturer, one fellowship, Rs.0.20 lakhs for equipment and Rs.1,00,000 for books and journals are recommended.

Recommendations

Staff	1R, 1L
Books	1.00 lakh
Equipment	0.20 lakh
Fellowship	1

10. Department of Economics

The Department was started during 1974-75 and has one professor and one lecturer. The syllabus is different from what is being taught at Osmania University. This is commendable but the syllabuses and courses need to be carefully reviewed. Two readers (Monetary Economics and Agricultural Economics) and four lecturers (International Trade, International Economics and Economic Development) and one fellowship are recommended. A sum of Rs.0.50 lakhs for books and journals is recommended.

Recommendations

Staff	2R, 4L
Books	0.50 lakh
Fellowships	1

11. Central Workshop

It is necessary to augment the facilities in the Physics departmental work and convert it to a central workshop under Committee of the user departments. An electronic expert and mechanics may be provided. The following grants are recommended:

- Technical Staff: 0.5 lakhs
- Equipment and Machinery 1.00 lakhs.

12. Starting of a new Department of Forestry:

The proposals put forward by the Centre include starting of a new Department of Forestry in collaboration with the Forest Department. The Committee is of the opinion that a department of Forestry should form part of an Agricultural university and not of University Centre like that at Warangal. The Committee, therefore, do not recommend the starting of a Department of Forestry at Warangal.

13. History Department

There was some discussion as to the introduction of a History Department but with the strengthening of a History Department at Osmania University, there is at the moment no urgency to start a History Department at the Postgraduate Centre at Warangal.

General Schemes:

It is necessary to have academic buildings, one for science Block and the other for Humanities and Social Sciences, with an estimated cost of Rs.18.00 lakhs (10 + 8), the UGC share for both the blocks at 50% will be Rs.9.00 lakhs. A Women's hostel with 40 rooms is also an immediate necessity at an estimated cost of Rs.2.00 lakhs with U.G.C. assistance limited to Rs.1.50 lakhs (75%). There is a particular need to sanction adequate amount for the purchase of books and journals as a good library is of urgent priority.

- Sd/-
1. Professor S. Gopal
  2. Professor R.S. Krishnan
  3. Professor A.K. Saha
  4. Professor J.K. Irani
  5. Professor R.Nagabhushnam
  6. Professor A.C. Jain
  7. Professor A.M. Shah
  8. Professor A. Gnanam
  9. Professor Romila Thapar.
  10. Shri V. Ramachandran
  - ii. Shri I.C. Menon.

Enclosures  
Annexure I & II

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Part III

ANNEXURE I

OSMANIA UNIVERSITY

	<u>Books</u> 100%			<u>Equipment</u> 100%			Buildings and others UGC share
	<u>I</u>	<u>II</u>	<u>Total</u>	<u>I</u>	<u>II</u>	<u>Total</u>	
Physics	0.70	0.30	1.00	2.00	1.00	3.00	
Mathematics	0.70	0.30	1.00	0.35	0.15	0.50	
Chemistry	0.70	0.30	1.00	2.00	1.00	3.00	
Botany	0.70	0.30	1.00	1.50	0.50	2.00	0.50 Green House
Zoology	0.70	0.30	1.00	1.50	0.50	2.00	0.50 Animal House
Commerce	0.70	0.30	1.00	0.25	0.15	0.40	
Public Administration	0.70	0.30	1.00				
English	0.70	0.30	1.00	0.15	0.05	0.20	
Telugu	0.70	0.30	1.00	0.15	0.05	0.20	
Economics	0.30	0.20	0.50				
Central Workshop				1.50	0.50	2.00	
	<u>6.60</u>	<u>2.90</u>	<u>9.50</u>	<u>9.35</u>	<u>3.90</u>	<u>13.25</u>	<u>1.00 (Others)</u>
General(UGC share)							I II Total
Science Block 50:50(including workshop)							2.50 2.50 5.00
Humanities Block 50:50							2.00 2.00 4.00
Hostel for girls (40) 75:25							1.00 0.50 1.50
				<u>5.50</u>	<u>5.00</u>	<u>10.50</u>	

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Part III

ANNEXURE II

OSMAINI UNIVERSITY  
P.G. Centre, Warangal.

Recurring

<u>Department</u>	<u>P</u> 100%	<u>R.</u> 100%	<u>L.</u> 75:25	<u>O</u> 100%	<u>Fellowships</u> 100%
Physics		2			2
Mathematics		1	1		1
Chemistry		2			2
Botany		1	2		1
Zoology		2			2
Commerce		2			1
Public Administration		1			1
English		1	1		1
Telugu		1	1		1
Economics		2	4		1
Central Workshop				2(0.50*)	
					<u>Priorities</u>
					I                      II
					10R, 5L              5R & 4L
					<u>2 others</u>
		<u>15 R.</u>	<u>9 L.</u>		

\*Electronics expert and mechanics.

SUMMARY

Showing the position of allocations of grants on the basis of the recommendations of the Vth Plan Visiting Committee.

A. Allocations

Rupees in lakhs

i) Books	9.50	(includes Rs.1.00 basic grant)
ii) Equipment	13.25	(includes Rs.2.00 basic grant)
iii) Buildings	10.50	
iv) Recurring	7.50	
v) Fellowships	2.25	
vi) Others	1.00	
	<u>44.00</u>	

B. Towards excess payment made over Rs.30.00 allocated in 4th Plan

5.99 say Rs.6.00

A+ B

50.00  
(Rupee fifty lakhs only)

PART- IV

UNIVERSITY-GRANTS COMMISSION

Report of the UGC Visiting Committee to  
Andhra University (January 24-25, 1975)

The Committee constituted by the University Grants Commission to examine the development proposals of the Andhra University visited Waltair and held discussions with the University authorities between 24th and 26th January, 1975. The Committee consisted of :

1. Professor S. Gopal . . . . . Convenor  
Member, UGC
2. Professor R.S. Krishnan  
Vice-Chancellor  
Kerala University,  
Trivandrum.
3. Professor A.K. Saha  
Deptt. of Geology,  
Presidency college  
Calcutta
4. Professor J.K. Irani  
Deptt. of Commerce  
Mysore University  
Mysore
5. Professor A.C. Jain  
Deptt. of Chemistry  
Himachal Pradesh University  
Simla
6. Prof. R. Nagabhushnam  
Deptt. of Zoology  
Marathwada University  
Aurangabad.
7. Prof. A.M. Shah  
Deptt. of Sociology  
University of Delhi  
Delhi
- 8- Prof. P.R. Brahmananda  
Deptt. of Economics  
Bombay University  
Bombay

Contd.



Part IV

- 9. Prof. A. Ghanam  
Deptt. of Biological Sciences  
Madurai University  
Madurai
- 10. Prof. S.S. Barlingay  
Deptt. of Philosophy  
Poona University  
Poona
- 11. Shri M.V. Rajagopal  
Education Secretary  
Govt. of Andhra Pradesh  
Waltair. Nominee of the  
State Government
- 12. Shri I.C. Menon  
Deputy Secretary  
UGC, New Delhi. Secretary of the  
Committee

Established in 1926, the University has 22 Departments in Humanities and Social Sciences and 14 Departments under Science Faculty.

The University has introduced internal assessment and semester system. Under the new system, tutorials, practicals, home assignments, field trips and survey projects have been introduced. But in most departments the staff-students ratio is not favourable to enable full justice to these programmes. One semester consists of 16 weeks. There is continuous assessment with objective type of questions. For the final semester, half of the questions are of the objective type and there is Viva-Voce examination. The semester texts are comprehensive and the papers are returned to the students who can discuss this with the teachers. Many departments have introduced M.Phil. programmes with course work and dissertation, but to strengthen this more fellowships are required. There are 33 University fellowships and five UGC fellowships, but these are not adequate. UGC may provide more fellowships out of the plan allocation on recurring basis. / a

At the undergraduate level the medium of instruction is either Telugu or English but at postgraduate level it is only English.

With the setting up of the Board of Intermediate Education, the income of the University from examinations has decreased. The Block grant from the State Government is about one crore per annum.

Contd.

Part IV

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The present allocation of unassigned grant by UGC is far too meagre and the Committee recommends that it be raised.

1. Department of Mathematics:- The Department is now running an M.A./M.Sc. course with an intake of 20 students. The Committee was informed that there is very little rush for admission to this course as the students feel that they may not get jobs. There are five research scholars working in the Department at present. The sanctioned staff strength is one Professor, three Readers of which one is vacant, eight Lecturers of which four are vacant. The research activities of the Department are centred round algebra, analysis and number theory. The average number of Ph.Ds. turned out is one per year and the average number of publications per year is 13. The Department had made valuable contributions in earlier years in the fields of analysis and number theory.

The vacant post of one Reader and four Lecturers should be filled up early. The Department has asked for one more Professor in number theory and one Reader in analysis. As the course does not have a good response, the Committee does not feel justified in recommending additional staff. A grant of Rs.50,000 for equipment and books and journals is however, recommended.

Recommendations:

Books and Journals: Rs.0.30 lakhs  
Equipment: Rs.0.20 lakhs

2. Department of Applied Mathematics:- The department is running an M.Sc. course in Applied Mathematics with an intake of 45 students a year and the specializations are fluid mechanics and elasticity. The department is also taking mathematics for five other science departments. The number of students working for Ph.D. at present is 7 and the average out-turn is one Ph.D. per year. There are 3 post-doctoral students working in the department. This department was originally designated as Mathematical Physics and has a good tradition of research in group theory and its applications to physics and Chemistry. This field of activity is not being continued now.

The staff consists of one Professor, one reader and eight lecturers. The Committee recommends one reader in bio-statistics a sum of Rs.25,000/- is recommended for books. Two fellowships are recommended.

Contd.

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Part IV

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This Department has no interaction with the Physics, nuclear physics and mathematics department. This is an unsatisfactory state of affairs which should be set right.

At present the Departments of Mathematics and Applied Mathematics are housed in the arts building, the former being part of the arts faculty, while the latter is part of the science faculty. It is better to integrate the two departments into one school department of Pure and Applied Mathematics and assign to the science faculty. In order to have better and close interaction with science school, it is necessary to locate this department of Pure and Applied Mathematics near the Physics building where the computer is housed now.

Recommendations:

Staff :	IR
Books and Journals:	Rs. 0.25 lakhs
Fellowships:	2

3. Department of Statistics:- At present the department is running a three-year M.Sc. course with an intake of 20 students. There are 3 research scholars working for Ph.D. It is also running a postgraduate evening one-year diploma course with an intake of 30 students a year. The Statistics Department is also running courses for some of the science departments, department of economics, and department of industrial engineering. It also does consultancy work for many departments of the University. The present staff consists of two Professors, two readers and seven lecturers, of which one post of professor and one post of Reader are vacant. These should be filled up early in order to strengthen the department.

In order to strengthen the activities of the department and to enable it to do better lecturing and consultancy service to other departments of the University which require such service, two posts of Reader in econometrics and in demography are recommended. An equipment grant of Rs. 75,000/- has to be provided and an equal sum of Rs. 75,000/- for the purchase of books and journals. The department should be provided with extra space to the extent of 3000 square ft. One fellowship can also be provided. The Statistics Department should be treated as a service department for all. This department should be consulted for lecturers in statistics for sister departments and for design of the enquiry/survey and later statistical analysis for all experimental

constd.

research or survey work carried on by other departments of the university. The creation of a survey unit in the Statistics Department would be a very useful step in interdisciplinary collaboration. Appointment of statisticians in other departments should be discouraged.

Recommendations:

- Staff : 2R
- Books and Journals: Rs.0.75 lakhs
- Equipment: Rs.0.75 lakhs
- Followships: 1
- Building: ) 3000 sq. ft.) Rs.0.75 lakhs UGC share)

The Computer Centre works satisfactorily but it charges fees from user departments, and therefore most of them, due to financial stringency cannot make the optimum use of the facility. The Committee feels that the Centre should not charge the University Department for Computer use and this could be done if operating costs are provided by UGC to the Computer Centre.

4. Department of Physics:- The Physics Department is one of the oldest departments of the University and has been a leading centre in spectroscopy, Raman effect, ultrasonics, ionosphere, etc. The department is now running a two-year M.Sc. course with annual intake of 64 students. The final year students choose one of the five special subjects, viz., electronics, aeronomy, spectroscopy, acoustics and solid state physics. The department has on its rolls 35 research scholars working for their Ph.D. degree. The Department is also running a three-year M.Sc.(Tech.) course in electronics with an intake of 8 each year. The department has three Professors, six readers and six lecturers. Besides, it has one professor, one reader and one lecturer under the UGC special assistance programme. The output of the department in terms of the number of Ph.Ds. produced per year and the number of research publications is very commendable. But it is sad to note that although it was a good centre for spectroscopic research, it has ceased to be so in recent years inspite of the fact that one of the professors and one of the readers are spectroscopists. The department continues to do good work in aeronomy and in acoustics. The facilities in aeronomy, acoustics and spectroscopy should be strengthened. It is not advisable to start new activities in solid state physics as proposed by the Department, as this subject is being specialised at the Guntur Centre. The proposal of the Department to start a part-time one-year postgraduate.

Contd.

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Part IV

staff diploma course in Radio Engineering is to be encouraged. Additional/consisting of one professor, / staff one reader and one lecturer, in accustics, theoretical physics and electronics (foreman) respectively is recommended. An equipment grant of Rs.4,00 lakhs and a book grant of Rs.50,000/- are also recommended.

Recommendations:-

- Staff: IP, IR, IL
- Books and Journals : Rs.0.50 lakhs
- Equipments: Rs.4.00 lakhs
- Followships: 3

5. Department of Nuclear Physics:- The Department is running a two-year M.Sc. course in nuclear physics with an annual intake of 32 students. Twenty-four research students working for their Ph.D. are on the rolls now. Research work is carried out in nuclear spectroscopy, nuclear reactions and interaction of radiation with matter. There are at present 14 teachers (2 professors, 3 readers and 6 lecturers and 3 associate lecturers). Both the output of Ph.Ds. and the number of papers published are commensurate with the facilities available.

An equipment grant of Rs.2.00 lakhs and a books grant of Rs.50,000/- are recommended. No fee should be charged by the Computer Centre for use of the facility by sister departments.

Recommendations:-

- Books and Journals: Rs.0.50 lakhs
- Equipment: Rs.2.00 lakhs
- Followships: 2

6. Department of Applied Physics:- The department is running a three-year M.Sc.(Tech.) course with three specializations (a) Optical Engineering, (b) instrumentation and (c) electronics. The present intake is thirty students a year. The Department has slowly embarked on a programme of research in techniques and developments. There are 8 research scholars working in this department. The staff consists of one professor, three readers, two lecturers and seven associate lecturers. The specialization of the professor is optical engineering. Additional staff consisting of one lecturer in instrumentation and one lecturer in electronics is recommended. To strengthen the existing facilities an equipment grant of Rs.2.50 lakhs and a book grant of Rs.30,000/- are recommended.

Contd.

Part IV

Recommendations:-

Staff : 2  
 Books and Journals : Rs. 0.30 lakhs  
 Equipment : Rs. 2.50 lakhs  
 Fellowship : 1

There being separate departments of Physics, Nuclear physics and Applied Physics, there is duplication of both staff and of effort. It is gratifying to note that the first year course is common for M.Sc. nuclear physics and M.Sc. pure physics. To secure the maximum benefit for the University for the money spent, it is better to bring these three departments under one School of Physics. This will ensure better coordination of the activities of the three departments and promote inter-disciplinary research. It may be necessary to shift the Nuclear Physics Department to a building nearer to the Physics Block.

7. Department of Meteorology and Oceanography:- This department is an unique one of its kind in India. It is running at present, a three-year M.Sc.(Tech.) course in Meteorology and Oceanography, the intake being 12 per year. The present staff comprises two professors, two readers, five lecturers and two associate lecturers. One reader's post is at present vacant. There are at present 18 students working for Ph.D. The output of Ph.Ds. per year is one. The department proposes to split the existing three-year M.Sc.(Tech.) course into two separate two-year M.Sc. courses in Meteorology and in Oceanography. This is recommended for acceptance. The review committee had recommended the starting of "Environmental Meteorology" as a special subject in the final year of the M.Sc. course in Meteorology. This can be accepted and a Reader in environmental meteorology is recommended for the Fifth Plan period. An additional lecturer in electronics is also recommended. Equipment grant of Rs. 1.5 lakhs and a grant of Rs. 20,000/- for books and journals are also recommended.

Recommendations:-

Staff : IR, IL  
 Books and Journals: Rs. 0.20 lakhs  
 Equipment: Rs. 1.50 lakhs  
 Fellowships: 2

8. Department of Chemistry:- The Chemistry Department has good traditions of productive work. It offers six specializations for M.Sc.(Final) in the six sections

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(1) Inorganic, (2) Organic, (3) Physical (4) Analytical, (5) Food Chemistry, (6) Nuclear Chemistry, M.Sc. Enrolments is 145 and for Ph.D. is 40. There are two professors (one in Organic and the other in Nuclear Chemistry), eight readers (3 in Inorganic, 2 in physical, 1 in Analytical and 2 in Organic), eight lecturers and four Associate Lecturers. The Committee is of the view that the Department may be organised as a school of Chemistry having three main divisions, each headed by a professor. The three divisions would be (1) Organic Chemistry, Natural products, foods (2) Inorganic and Analytical Chemistry, (3) Physical and Nuclear Chemistry. For this purpose one post of professor in Inorganic Chemistry and one reader in Marine Chemistry and 2 Lecturers may be created for the school. The department of Pharmacy should take care of drugs.

Recommendations:

Staff : IP, IR, 2L  
 Books and Journals : Rs.1.50 lakhs  
 Equipment: Rs.4.00 lakhs  
 Renovation of Laboratories (UGC share Rs.1.00 lakhs)  
 Fellowships: 2

The Central Instrumentation and Servicing Laboratory for which separate provision is made will take care of the needs of sophisticated equipment of common use of various user departments.

Deptt. of Biochemistry: - This is a comparatively young department with one professor, one reader and 3 lecturers. Intake for M.Sc. is 12.

Recommendations:-

Staff: 2L  
 Books and Journals: Rs.1.00 lakhs  
 + Equipment: Rs.1.50 lakhs  
 Glassware and Chemicals Rs.0.75 lakhs

9. Department of Botany:- The Deptt. has 2 Professors 4 readers and 8 lecturers of whom 8 are Specialists in Cyto-Genetics and 3 in Plant Embryology. This is a UGC Centre for Special Assistance. Department has been doing commendable work in Cytogenetics. However, for Post-graduate teaching there should be equal emphasis in all sub branches of Botany. There is no good Plant Physiology section. The emphasis may be shifted to experimental aspects of Botany.

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Recommendations:

Staff : 2R( 1 for Marine Algae and 1 for Physiology)  
IL( for Developmental Biology)  
Books and Journals: Rs.0.50 lakhs  
Equipment and Glassware Rs. 2.00 lakhs  
Fellowship : 1

10. Department of Zoology:- The Department was started in 1946 and started offering Marine Biology and Parasitology at the M.Sc. as well as Research level. The Department has well established research wings in Marine Biology, Helminthology, Proto-Zoology and Histochemistry. The present strength of the staff consists of one Professor (Helminthology), four Readers (one in Protozoology, two in Marine Biology and one in Physiology) and four lecturers. The Department admits 50 students for M.Sc.(Previous) and 30 students are working for Ph.D. During the fourth plan period the department has produced 17 ph.Ds. of which nearly 14 of them are in Marine Biology. The department is coaching students of pharmacy, biochemistry, botany, M.E. Public Health Engineering. It has introduced semester system in 1972. The department is also associated in organising a parallel course in Biosciences in collaboration with Botany, Biochemistry and Statistics; looking into their various activities, the present staff of the Department is inadequate. It is desirable that during first year M.Sc. the department should teach common core courses with Botany and other departments and for M.sc. final stage the students may go to Zoology, Botany or other streams and choose one of the specializations in the respective departments.

Recommendations:

Staff : IR(Hydrography or Fishery Science)  
IL(Parasitology)  
Equipment: Rs.2.00 lakhs  
Books and Journals : Rs.0.50 lakhs  
Fellowships : 2

School of Earth Sciences:- Comprising the Departments of Geology, Geography and Geophysics, this school may run the following M.Sc. courses: Hydrology and Applied Geomorphology, apart from conducting joint research projects. The respective heads of the Departments would be the Convener of the school in alternate years.

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11. Department of Geology:- The Department has two professors, seven readers and nine lecturers. The Department is running a two-year M.Sc. course with an intake of 12 students and three-year M.Sc. Tech. course with an intake of 12 students. There are 20 research scholars working for Ph.D. This is one of the UGC centres for Special Assistance. The Department is doing good work in teaching and research in the fields of Economic Geology, Geochemistry, Petrology, Ore Mineralogy and Marine Geology. Considering the needs of the country and competence of the Department, the following post M.Sc.-courses may be started:

- (a) Geological Prospecting( in cooperation with Geophysics Deptt.) with upto 10 students per year in each course.

The Committee recommends one Reader(Hydrogeology) and one Reader and one Lecturer for new courses in Marine Sciences jointly with Botany, Zoology, Chemistry, Meteorology and Geophysics. A sum of Rs.3 lakhs for equipment and Rs.50,000/- for books and journals is recommended. The present intake for both M.Sc. and M.Tech. may be raised to 16 for each course. Two fellowships are recommended.

Recommendations:

Staff: 2RI 1L  
 Books and Journals: Rs.0.50 lakhs  
 equipment: Rs.3.00 lakhs  
 Fellowships : 2

12. Department of Geophysics:

The Department has two professors, one reader, four lecturers and three Associate Lecturers. The department is running an M.Sc. Tech. course with an intake of 30 students. There are 15 research scholars working for Ph.D. out of which 5 are without fellowships. The number of research scholars awarded Ph.D. degree during fourth plan was 10.

In recent years the Department has done good research work in Magnetic and gravity surveys. But it could be more active.

The Department proposes to start a two-year M.Sc., course in Hydrology. This is not recommended in view of the large financial outlays required and uncertain employment opportunities. But the department could actively collaborate with the Geology Department in

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Part IV

starting the post-M.Sc. course in Hydrogeology and with five other departments in starting the new M.Sc. course in Marine Sciences. For this the one post of Reader and one Lecturer may be sanctioned. A sum of Rs. 2.5 lakhs for equipment and Rs. 25,000/- for books and journals is recommended. Two fellowships are recommended.

Recommendations:

Staff : IR, IL  
Books and Journals : Rs. 0.25 lakhs  
Equipment : Rs. 2.50 lakhs  
Fellowships : 2

13. Department of Geography:- Started in 1972-73, the Department has one Professor (Vacant) one reader and two lecturers. The intake for M.Sc. is 12. The department has a modern curriculum biased towards physical geography, geomorphology and cartography. The department should be encouraged to develop to its full stature as early as possible since few university departments of Geography have such a bias. Building with 6000 sq.ft. is required with an amount of Rs. 3 lakhs (UGC share Rs. 1.5 lakhs). The intake should stabilise around 16. The department should participate in the programmes of the proposed school of Marine Sciences and the School of Earth Sciences. The post of professor should be filled early and one post of lecturer cartography or industrial/agricultural geography accepted. A sum of Rs. 2 lakhs for equipment and Rs. 50,000/- for books and journals and one fellowship is recommended.

Recommendations:

Staff : IL  
Books and Journals : Rs. 0.50 lakhs  
Equipment : Rs. 2.00 lakhs  
Fellowship : 1  
Building : Rs. 1.50 lakhs

14. School of Marine Sciences:- Among the Indian Universities, Andhra University has been a pioneer for the past 25 years in teaching and research in different fields of Marine Sciences, e.g. Marine Biology and Marine Botany, Marine Zoology, Physical Oceanography, Marine Geophysics and Meteorology. It has well established departments of Zoology, Geology, Botany, Physical Oceanography, Meteorology, Geophysics and Chemistry. The cartographic expertise of the Geography would be of great help to the scientists of / disciplines. In the UGC Expert Committee report the

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traditions\*

Envisages

following statement was made: "Andhra University with its for marine research is ideally suited for development as a centre for Marine Sciences - a new course of study may be introduced viz., M.Sc. in marine sciences." The M.Sc. course in marine sciences, imparting instruction in common basic courses in subjects like marine zoology, marine botany, marine geology, physical oceanography, chemical oceanography, marine geophysics, climatology and statistics to the candidates in first year. During the second year the candidate can branch out into any one of the above special fields. Thus the course has to be run as a multi-disciplinary interdepartmental course, in collaboration with the above departments.

Since the marine biology laboratory has already been constructed near the sea shore with the help of UGC funds, it should be used as a nucleus for organising M.Sc. course in marine sciences. The following provisions have to be made to organise M.Sc. in marine sciences.

Recommendations:

- Staff: 1 Professor (Marine Biology)  
 3 readers (Marine Physiology, Physical Oceanography and Marine Ecology)  
 3 Lecturers (Marine Chemistry, Marine Geophysics and Marine Geology/Zoology).

One of the professors of the constituent departments will act as Coordinator for organising this course).

- Equipment: Rs. 2.00 lakhs (including the running water facilities to be made)  
 Library: Rs. 0.5 lakhs, cold room storage etc. Rs. 1.00 lakh  
 Hiring research vessel; Rs. 1.00 lakh.

15. Department of Environmental Sciences: There is a proposal to start a school of environmental sciences in the college of science and technology. Visakhapatnam being highly industrialised, pollution is a serious problem. Water pollution is also a big problem. The following courses are to be included in the programme viz.; Biology, Chemistry, Biochemistry, Statistics, Bio-Physics, Geology etc. Andhra University has a large number of departments which can undertake such interdisciplinary courses. To start with a post M.Sc. diploma course may be organised in a modest way utilising the facilities of the existing departments. However, the following staff is to be sanctioned to organise the course.

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Recommendations:

Staff : IP (Ecology/Environmental Biology)  
IR (Microbiology/Biophysics)

Equipment: Rs. 0.50 lakhs

(One of the professors of the above departments may act as the Chairman/Co-Ordinator/Convener of the School programmes)

School of Biological Sciences:- A wide range of Biological Sciences such as Botany, Zoology, Biochemistry, Oceanography, Marine Sciences and Human Genetics have developed in this University. This could be one of the ideal situations where an integrated approach to Biology can be tried. In fact the University has proposed a School of Bio-Sciences as a parallel programme along with the existing departments and courses. Since the University has such a large infrastructure it need not establish a separate school of Bio-Sciences in addition to the existing departments which may be functioning under the umbrella of the School of Biosciences. They have enough potential to initiate newer courses on General Biology, Environmental Biology and Marine Sciences with marginal support. Therefore, there is no need to start an additional department with a massive input.

16. The department of Human Genetics may form part of the school of Bio-Sciences, and the department may conduct post M.Sc. diploma course in Human Genetics and concentrate on research. It would be useful to bring all the 6 Biology Departments in close proximity after reallocation of buildings. In view of shortage of space an additional building with 10,000 sq.ft. may be required which may then accommodate the Human Genetics Division with U.G.C. share Rs. 2.5 lakh.

Recommendations:

Staff : IL (In Genetics)

Books and Journals : Rs. 0.5 lakhs

Equipment: Rs. 1.00 lakhs

Buildings: Rs. 2.5 lakhs

17. Department of Economics:- There are now two Departments in the University covering the subject, one called the Department of Economics and another devoted to Co-operation and Applied Economics. The Committee is of the view that the two Departments be combined and designated by some such name as the Walter School of Economics. The process of integration may take some time but initially the two Divisions be treated as two administrative units of a single school with a measure of mutually agreed autonomy in regard to specific courses

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undertaken by each department with a rotational headship (Convonor/Chairman/Co-ordinator). The present department of Economics has one Professor, two Readers, five lecturers and has a chequered history of teaching and research. Enrolment for M.A. is 80 and the number of research scholars is 10.

The Committee recommended two professors (Economic/Theory and Economic Development), two readers (Quantitative Economics) and Monetary Economics) and one Lecturer (Industrial Economics). A sum of Rs.70,000/- for equipment and Rs.60,000/- for books and journals and two fellowships are recommended:

Recommendations:

- Staff: 2P, 2R and 1L
- Books and Journals : Rs.0.60 lakhs
- Equipment: Rs.0.70 lakhs
- Fellowships: 2

18. Department of Cooperation and Applied Economics:

The Department of Co-operation and Applied Economics is a well-known Department and has a number of research contributions to its credit. It also trains students in P.G. diploma in Co-operation. The department has shown sustained interest in problems like agrarian reforms, community development and mechanisation of agriculture. The department has two professors, three readers, four lecturers. Enrolment for M.A. is 34 and Diploma 38. There are 6 research scholars.

The Committee recommends one Professor (International Trade with reference to agricultural commodities), three readers (i) Growth Economics with reference to Indian Agriculture (ii) Rural Finance and Cooperation, (iii) Mathematical Economics with reference to the theory of the firm as applied to agriculture in general and Indian agriculture in particular and one lecturer (Agriculture/marketing). A sum of Rs.60,000/- for books and journals and Rs.0.70 lakhs for equipment and two fellowships are recommended. The Committee also recommends additional space (5,000 sq.ft. for both the departments (School of Economics) with UGC share Rs.1.00 lakh). The School may be considered for special assistance of U.G.C.

Recommendations:

- Staff : 1P, 3R, 1L
- Books and Journals : 0.60 lakhs
- Equipment : Rs.0.70 lakhs
- Fellowships : 2
- Building : 1.00 lakhs

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19. Department of Politics & Public Administration:-

The sanctioned staff strength for the Department of Politics is one Professor, two readers, one lecturer and for the Department of Public Administration is one Professor two Readers and one Lecturer. The Department proposes to introduce a course in African Studies and a course in Regional Development. The development of African studies should be continued under the area studies programme of the UGC and the department should forward its proposals to the Area studies Committee. Since the Department of Economics has also proposed a post M.A. diploma course in Economic Development and Planning, the contents of this course can be conveniently combined with that of the Economics Department. The Committee recommends two Lecturers (one for each department) Rs. 10,000/- for each Department for Books and Journals.

Recommendations:-

Staff : 2L

Books and Journals : Rs. 0.20 lakhs

The Committee recommends that the department of politics and public administration be separated.

20. School of Marine Studies:- Andhra University has been developing a School of Marine Sciences and as a supplement to this the Committee recommends that steps be taken to build up a School of Marine Studies. As a start, the Department of Politics should be encouraged to go ahead with its proposal for a diploma course in Strategic and Defence Studies with special emphasis on naval problems. For this purpose posts of 1 reader and 2 lecturers should be sanctioned and a grant of Rs. one lakh for books and journals.

Recommendations

Staff : IR, 2L

Books and Journals Rs. 1.00 lakh

The Law Department has also proposed specialization in Marine Law and the Law of the seabed. The Committee supports this proposal and its recommendations for staff will be found later while dealing with the Law Deptt.

21. Deptt. of Anthropology:- Started in 1961 as a Department of Social Anthropology, this was under the faculty of Social Sciences. Two more subjects, Physical Anthropology and pre-historical archaeology were added to the Department in 1967 and 1970 respectively. Since 1970 the Department has been teaching M.A. course in which

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the students learn three subjects; Physical Anthropology, Social Anthropology and Pre-historic Archaeology in equal proportion in the first year and specialists in one of the three during the second year. The staff strength is one professor (vacant) in Social Anthropology (under Litigation) one Reader in Physical Anthropology (Vacant), three lecturers in Social Anthropology, Physical Anthropology pre-historic Archaeology and one Associate Lecturer (Social Anthropology).

22. Department of Human Genetics and Physical Anthropology

The department was established in 1972 by shifting one Reader in Physical Anthropology from the Department of Anthropology. Besides an Associate Lecturer in Physical Anthropology is also taken on 'Loan' from the latter. But the Department of Anthropology continues to have on its staff one lecturer in Physical Anthropology and it continues to teach Physical Anthropology as part of its M.A. course in Anthropology.

The three disciplines of Social Anthropology, Physical Anthropology and Pre-historic Archaeology have developed on independent lines and there is little coordination or relationship among the three. There is no rationale behind the teaching of all the three of them in a composite course in Anthropology.

In view of this, the separation of Physical Anthropology from Social Anthropology in Andhra University, is a step in the right direction, and further steps should be taken to strengthen the new department of Human Genetics and Physical Anthropology. Whatever teaching and research in Physical Anthropology are being done in the Department of Anthropology research in fact is very little should be shifted to the Department of Physical Anthropology. So also, the Associate Lecturer in Physical Anthropology, now on loan, should be permanently shifted to the Department of Physical Anthropology. However, in view of the current and planned research in this department; almost all of which is in the field of Physical Anthropology rather than of Human Genetics, it would be appropriate to name the new department as simply the Department of Physical Anthropology. Human Genetics should come under the School of Biosciences.

The pre-historic Archaeology section of the Deptt. of Anthropology should be shifted to the Deptt. of History and Archaeology. In view of the University's plan to have a separate deptt. of Ancient History and Archaeology to be located at the Post-Graduate Centre at Guntur such

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shift of the Pro-History Section of Anthropology Deptt. to the new Deptt. at Guñtur would be conducive to the growth of the new department.

At the present moment in India, there is no rationale for treating Sociology and Social Anthropology as two separate disciplines. Andhra University would merge the Social Anthropology Section of the Deptt. of Anthropology and the Sociology section of the Deptt. of Sociology and Social work to form  $\frac{1}{2}$ . However, since litigation is going on with regard to the Professor and Head of the Deptt. of Anthropology who is a Social Anthropologist, it may be difficult to bring about such a merger. But academic considerations warrant such merger. In any case if the Physical Anthropology and the Pre-Historic Archaeology Sections are removed from the Department of Anthropology, the remaining department could be re-named as the Deptt. of Social Anthropology.

the deptt. of Sociology and Social Anthropology.

23. Deptt. of Sociology and Social Work:- It imparts training for three different courses: (1) M.A. in Sociology (ii) M.A. in Social Work; and (3) M.A. in Industrial Relations and Labour Welfare. In terms of content, the latter two courses go together and could be grouped under the overall framework of Social Work. The Ph.D. students also work in these two broad fields.

The Division of Social Work has one Professor, one reader, three lecturers with an enrolment of 40.

Sociology has 1 Professor, 1 Reader (vacant) 4 Lecturers and has 50 students for M.A. The Division of

The Division of Industrial Relations and Labour Welfare has one Reader, three Lecturers. In terms of qualifications, training and work, the teachers in the social work and industrial relations and labour welfare divisions could be grouped under the overall category of social work.

The present department of Sociology and Social Work should be split up into two departments, one in Sociology and the other in Social Work, the latter including Industrial Relations and Labour Welfare within its purview. After this bifurcation the Department of Sociology may be strengthened by addition of one Reader and one fellowship. The Department should concentrate on strengthening its present programmes and should not start any new degree or diploma courses; on the other hand it should reduce the number of optional papers for M.A.

Recommendations:-

Staff: IR  
Books and Journals: Rs. 0.50 lakhs  
Fellowship: One

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24. The new Department of Social Work (including Industrial Relations and Labour Welfare)

The department will require large inputs if the M.A. programme in Social Work and Labour Welfare is to be placed on a sound footing. The department should be equipped in respect of "minimum standards of Social Work education." Besides, one professor and one reader, it will need an infrastructure for satisfactory organisation of field work for M.A. students. The Department should not start any new Degree or Diploma courses and new optional papers, but it should actually reduce the number of optionals.

Recommendations:

Staff: IP, IR  
Books and Journals : Rs.0.50 lakhs

25. Department of Commerce & Business Administration:-

The department has one professor, four readers and 10 lecturers (four readers and 2 lecturers vacant) The intake for M.Com. is 100. There is a great rush for admission in the department (The Deptt. also runs an M.B. course with the same staff. The rush for admission to MB A is very high, but admission has been restricted to 15 in view of the paucity of trained staff to run the MBA course. This comes under AICTE)

The department proposes to strengthen its existing courses and to expand its research work as follows:

- (i) Strengthening teaching and research in the area of Corporation Finance. This is essential as Finance and Financial Control are now the most important subjects in the teaching of Commerce at the Master's level.
- (ii) Opening courses in Quantitative Methods at the M.Com and Pro-Ph.D. degree level. This is also essential as Modern Commerce is now leaning towards tools of Quantitative analysis.

iii) Setting up of a case collection unit in the Deptt. This is also essential as Modern Commerce is now being taught not only through theory but also through case studies.

iv) Starting Teacher Improvement Programmes for improving the quality of teaching staff in the colleges.

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The introduction of the M.Com. (semester system) with internal assessment would increase the work-load of the department.

At present no qualified Lecturer in Business Management would enter the teaching profession in the grade of Rs.400-950, or even in the proposed revised UGC grades, as they are all absorbed in high positions in the executive field, their prospects of promotion are also high. We are, therefore, of the opinion that the four vacancies of readers will have to be earmarked specially for filling up posts of readers in Business Management only, leaving therefore, professor (common to both M.Com., and M.B.A.) and one Reader for M.Com.

We recommend the creation of one post of professor of Commerce (specialised preferably in Business Finance or Personnel Management) one case analyst (to conduct case studies) Rs.30,000/- for equipment and Rs.15,000/- for Books and journals.

Recommendations

Staff : IP, I Case Analyst.  
Books and Journals : Rs.0.15 lakhs  
Equipment Rs. 0.30 lakhs

The Committee, in its discussions in the Commerce departments suggested that for teaching quantitative Economics, the services of the specialist in the Economics Department be utilised. The Committee has provided for this in the Economics Department.

26. Deptt. of Law: The department has 153 student at I.B.L and 60 students at I.B.G.L. 49 at (I) B.L. and 36 students: at (II) B.G.L, 79 students at (III) B.L., and one student at M.L. Its sanctioned staff is one professor, five readers, four lecturers and two Asstt. Lecturers. The department proposes to introduce advanced studies in Oceanography and Maritime Law. We recommend the creation of one post of Professor (specialised in Law of the seabed (Maritime Law), one Reader and Rs.50,000/- for the library.

In cooperation with the School of Marine Sciences and the Deptt. of Politics, the Department could undertake teaching and research so that in course of time a Modern School of Marine Studies could be developed at Waltair.

Recommendations:

Staff: IP, IR  
Books and Journals : Rs.0.50 lakhs.

The department is at present burdened with evening classes. If it is to develop as an advanced teaching and research deptt, and not merely remain as producing ordinary law graduates, these evening classes could be transferred to colleges which want to take up the teaching of law.

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27. Department of Philosophy

The Department has one Professor(a National fellow) two Readers and five lecturers. The post of one Reader is vacant. The enrolment in M.A.(Prev.) is 31 and M.A.(Final) is 27. During the last 10 years, 6 Ph.D's were awarded.

The department has laid emphasis on Metaphysics and Philosophy of Religion. Some members of the staff are interested in Contemporary Indian Thought and Political Philosophy. For want of proper staff the Department has not given adequate attention to Symbolic Logic and Philosophical Analysis and Phenomenology.

Recommendations:-

Staff: IP(Epistemology/Metaphysics/Indian Philosophy.)  
IR(Modern Logic or Phenomenological Analysis)

Books and Journals: Rs.0.50 lakhs  
Fellowship: 1

The department may be considered for special assistance by University Grants Commission.

28. Department of Para-psychology and Psychology:-

Established in 1967, the Department has one Professor one Reader, three Lecturers and 1 Associate Lecturer. Intake for M.A. is 12, Research +Scholars 7. Ph.D's awarded 3. The department has the only 'Dream Laboratories' in India with facilities for advanced psychophysiological research. One important area of research is "altered state of awareness and voluntary control of internal status."

Recommendations:

Staff: IR, II.  
Books and Journals: Rs.0.50 lakhs  
Equipment: Rs.1.30 lakhs (0.80 lakhs for setting up the standard experimental psychology Laboratory and Rs.0.50 lakhs on acoustic and electrical shielding and on construction of the Dream Laboratory).

The Department may be renamed as Department of Psychology. The Department proposes to publish an Indian Journal of Psychology. This may be considered by the University out of the publication grants within the plan allocation.

The Department may start a diploma courses in Applied Psychology and /or in Voluntary Control of Internal status. If these courses are started an additional Rs.0.20 lakhs for equipment may be sanctioned.

Contd.

29. Department of Education:- The Department was started two years ago. It has 8 students. The sanctioned staff is one professor, one reader and three lecturers. The post of professor has been advertised. The department proposes to introduce an inservice short-term courses (3 months) in compensatory (Remedial) education and a two year B.Ed. Degree course. The Committee recommends a sum of Rs.15,000/- for equipment and Rs.30,000/- for books and journals.

Recommendations:-

Books and Journals : Rs.0.30 lakhs  
Equipment: Rs.0.15 lakhs.

30. Department of History and Archaeology:- The department of History and Archaeology has 1 professor (Vacant) 3 readers and 2 lecturers. The enrolment in M.A.(Prev.) is 54 and for M.A.(Final) is 33. The major areas of research are History of Andhra and History of India all periods. The Deptt. has decided to start from 1975-76 two specialisations : (1) Indian History, and (2) Western and Asian History.

The department at Waltair should concentrate on Modern history (Indian and ex-Indian) and shift archaeology and ancient History to Guntur. The vacant professorship should be filled early and a historian who can give a lead in teaching and research of modern history appointed. The M.A. courses and syllabuses require reformation to enable intensive depth studies.

Recommendations:-

Staff : 2L  
Library: Rs.0.50 lakhs  
Fellowship: 1

31. Department of English:- The Department of English has 31 students for M.A.(Prev.), 39 students for M.A.(Final) and 32 students for the diploma course. Its sanctioned staff consists of two professors, four readers, three lecturers and three assistant Lecturers. There are four unfilled vacancies of lecturers and Associate Lecturers. The introduction of the M.A.(semester system) with the Internal Assessment would increase the work-load of the Department, and vacancies should be filled as soon as possible.

Recommendations:-

Books and Journals: Rs.0.10 lakhs  
Equipment : Rs.0.15 lakhs  
Fellowships : 1

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32. Department of Sanskrit:- The Department has 9 students at M.A.(Sanskrit), 29 students for the Postgraduate diploma in Sanskrit senior and 10 students for the Postgraduate diploma in Sanskrit junior. There are 8 research scholars. The sanctioned strength of the Department is one Professor, one reader, seven lecturers and one classical pandit. There are vacancies of four lecturers and one classical Pandit. The major areas of research are: (1) Sanskrit literary criticism (2) Sanskrit Drama (3) Sanskrit Darshana and Vedanta. The Committee recommends one post of lecturer may be upgraded as a Reader. Some of the vacant posts of Lecturers may not be needed by the Department and could be transferred to other departments. Fellowships 2. The Committee also recommends Rs.20,000/- for books and journals and Rs.5,000/- for Typewriter (Devnagari).

Recommendations:-

Staff: IR  
 Typewriter : Rs.0.05 lakhs  
 Books and Journals : Rs.0.20 lakhs  
 Fellowship; 2

33. Department of Hindi:- The Department has 30 students for M.A.(Previous) and 25 students for M.A.(Final). Its sanctioned staff is one professor, three reader and three lecturers. The Department desires to start a senior diploma course in Hindi to prepare bilingual dictionaries and to write the history of Telugu Literature in Hindi.

Recommendations:-

Staff : IL  
 Books and Journals: Rs.0.10 lakhs  
 Equipment: Rs.0.10 lakhs.

34. Deptt. of Telugu:- The Departments sanctioned strength is two professors, three readers and six lecturers. There are five vacancies in the department. The deptt. has yet to complete the project Telugu Etymological dictionary commended during the Second Five Year Plan. The Department proposes to introduce more specialization in a-esthetic studies of Mahabharata and advanced linguistics. The existing posts may be filled early.

Recommendations:

Books and Journals: Rs.0.30 lakhs

35. Department of Linguistics: - The University wants to start a Department of Linguistics. The Committee does not favour this and proposes to strengthen the linguistics department in Osmania University which has already made

Part IV

much progress. The difficulty of students from the Andhra region getting admission to Osmania University should be got over with the help of the State Government and the Government of India through a special ordinance. But the language departments like English, Hindi, Telugu and Sanskrit could be encouraged to give some attention to Linguistics by means of inter-departmental/cooperation. A school of languages formed through voluntary cooperation of the concerned departments would provide the basis for the development of linguistics in the university. It will also be possible through the system of proposed visiting professorships/experts, to get the services of experts from other universities for teaching courses under the semester system.

36. Department of Library Science:- Its average intake is 40 students a year. The sanctioned staff of the Department is one reader, two lecturers and one Assistant Lecturer. The Committee does not recommend the starting of the M.Lib.Sc. course. Competent staff from the library may cooperate in teaching programmes. The department should be housed in the University Library building. The Chief Librarian should be the Head of the Department of Library Sciences.

Recommendations:

Books and Journals: Rs. 0.15 lakhs.

37. Deptt. of Journalism:- The University wants to establish a new Department of Journalism in view of the growing demand for such a course in the area. The committee is of the view that the Osmania University Department of Journalism should work as a Centre for the whole State, regardless of regional considerations.

38. Central Instruments and Services Laboratory:-

University's plan to centralise all major equipment required for common use by more than one deptt. is a good suggestion and is recommended for acceptance. This Laboratory should also service and maintain in good condition some of the optical, electrical and electronic instruments in the various science departments. This is a very important service absolutely necessary in order to keep the modern sophisticated instruments in good running condition. The Head of this unit should not be designated as professor. The proper designation is Instrumentation Engineer/Scientific Officer in a Professor's/Reader's grade. There should be in addition an electronic expert and an instrumentation expert in Lecturer's grade and three technical assistants. An equipment grant of Rs. 10 lakhs has to be provided for the purchase of sophisticated

Contd.

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Part IV

equipment and machines. A separate building has to be provided with UGC assistance on 100% basis (Rs.3 lakhs) Instruments and equipment commonly used in various departments will be housed here. A Committee of user departments may assist in the proper functioning of the Centre.

Recommendations:

- Staff : IP/N, 2L, 3 others
- Equipment: Rs.10.00 lakhs
- Building : Rs.3.00 lakhs

39. Computer Centre:- At present the University has an IBM 1130 computer housed in the Physics building. The area provided for the same is 1100 sq.ft. Even if the storage capacity of the computer is increased with the addition of two more disk drives, the space already provided should be sufficient. The existing space has to be partitioned so as to have a room for the computer assembly which should be air-conditioned and another for office-cum service. The extra punching card machines and the veriflors to be purchased can be housed in these departments which make use of the computer facility most. At this stage it is not contemplated to start a computer science course. The computer will continue to be used as a common facility, and may be housed in the CISL building recommended on pre-page.

40. Central Library:- A grant of Rs.10.00 lakhs is recommended for the Central Library. The Committee is of the view that in the situation of the University, fragmentation of library into departmental ones is neither academically sound nor desirable.

An equipment grant of Rs.0.50 lakhs for the library for Photo-copying machines etc., and additional space for reference services estimated at Rs.1.00 lakhs (UGC share Rs.0.50 lakhs) may also be provided.

Recommendations:

- Books and Journals: Rs.10.00 lakhs
- Equipment : Rs.0.50 lakhs
- Reference services: Rs.0.50 lakhs
- (Space)

General Schemes:

Women's Hostel

There is an urgent need for a women's hostel to accommodate 100 inmates estimated at Rs.5.00 lakhs(UGC Contd.

Part IV

share Rs.3.75 lakhs). +There is also need for a student's Home for the day scholars among the girls and this can be constructed as extension to the existing women's hostel, for which Rs.1.50 lakhs may be made as UGC share.

Hostel for Men

There is also mounting pressure for a men's hostel to accommodate 200 students estimated at Rs.10.00 lakhs(UGC share Rs.5 .00 lakhs). This is recommended.

Staff Quarters:

The teaching staff find it extremely difficult to obtain rented accommodation due to shortage of such facilities and the high rates of rent prevalent in the areas. The Committee, therefore, recommends 20 quarters for Lecturers at present at an estimated cost of Rs.8.00 lakhs (of which UGC share is Rs.4.00 lakhs)

Miscellaneous Schemes:

a) Visiting Professorships:- In order to avail of the services of experts from other universities in academic programmes, a provision of Rs.2.00 lakhs is recommended for visiting professorship. They should be integrally related to the various programmes in the University departments and operated on the principle of complementarity.

b) Faculty Improvement Program:- Since the University departments have agreed to help upgrade the competence of teachers from colleges, a lumpsum provision of Rs.5.00 lakhs is recommended within the plan allocation in order to help the university to start the programmes without delay.

c) Fellowships:- With a view to strengthening research in the university departments and to provide for a steady supply of doctorates, the Committee is of the view that it is necessary to provide research fellowships during the Fifth Plan, for which a provision of Rs.7.00 lakhs is made.

d) Publication:-

With a view to encouraging publication of high quality research work monographs and curricular materials etc., a provision of Rs.2.00 lakhs is also recommended within the plan allocation.

e) Science and Society:- Instead of the course in Indian Civilization and Culture planned by the University the Committee favours the course suggested to it by some professor on Science and Society and the Methodology and Philosophy of Science. The various departments could collaborate in this venture. Rs.75,000/- may be provided for this.



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Appendix

ANDHRA PRADESH

SUMMARY OF SPILL OVER + BASIC + NEW ALLOCATIONS DURING  
VTH PLAN PERIOD

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<u>SPILL OVER</u>	<u>Rs. in lakhs</u>
(a) Buildings	Rs. 7.40
(b) Staff	Rs. 2.96
	<hr/>
	Rs. 10.36
	<hr/>

NEW ALLOCATIONS

(a) Books	Rs. 23.75 *
(b) Equipment	Rs. 45.55 *
(c) Buildings	Rs. 23.00
(d) Miscellaneous Schemes.	Rs. 14.05
(e) Fellowships	Rs. 7.00
(f) Recurring	Rs. 26.50
	<hr/>
	Rs. 139.85
	<hr/>

Total Rs. 150.21

PS\*

Sum of Rs.3.00 for Books and Rs.5.00 for equipment earmarked as Basic allocation during V Plan Period forms part of above new allocations of Rs. 23.75 for books and Rs.45.45 (Equipment) respectively.

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ANDHRA UNIVERSITY

SPILL OVER STATEMENT - 4TH PLAN SCHEME

A

Recurring: - Rs. 2,96,000

B

Building and other Schemes.

- (a) Teaching Blocks and Labs. Rs. 2,77,620
- (b) Central Library Rs. 35,016
- (c) Students hostels Rs. 1,97,120
- (d) Staff Quarters Rs. 1,46,027
- (e) Health Centre Rs. 36,092
- (f) Other Misc. Rs. 48,125

Rs. 7,40,000

Total A Plus B Rs. 10,36,000

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Appendix III.

ANDHRA UNIVERSITY

DEPARTMENTS	P	R	STAFF	
			L	0
Appd. Maths	-	1	-	-
Physics	1	1	1	-
Statistics	-	2	-	-
Applied physics	-	-	2	-
Meteorology & Oceanography	-	1	1	-
Chemistry	1	1	2	-
Botany	-	2	1	-
Biochemistry	-	-	2	-
Zoology	-	1	1	-
Geology	-	2	1	-
Geophysics	-	1	1	-
Geography	-	-	1	-
Marine Sciences	1	3	3	-
Environmental Sciences	1	1	-	-
Marine studies	-	1	2	-
Human Genetics	-	-	1	-
Economics	2	2	1	-
Cooperation & Applied Economics	1	3	1	-
Sanskrit	-	1	-	-
Hindi	-	-	1	-
Politics & Pub. Admn.	-	-	2	-
Sociology	-	1	-	-
New Deptt. of Social Work	1	1	-	-
Commerce	1	-	-	1
Law	1	1	-	-
Philosophy	1	1	-	-
Parapsychology & Psychology	-	1	1	-
History & Arch	-	-	2	-
C.I.S.L.	-	-	-	5
<hr/>				
	11	28	27	6
<hr/>				

Appendix IV.

Part IV

ANDHRA UNIVERSITY

DEPARTMENTS	Priorities		
	I	STAFF II	III
Applied Mathematics	IR	-	-
Statistics	IR	IR	-
Physics	IP	IR	IL
Applied Physics	IL	IL	-
Metero & Oceanography	IR	IL	-
Chemistry	IR, IL	IP, IL	-
Botany	IR, IL	IR	-
Biochemistry	IL	IL	-
Zoology	-	IR	IL
Geology	IR	IR	IL
Geophysics	IR	IL	-
Geography	IL	-	-
Marine Sciences	2R, 3L	IP, IL	IR
Environmental Sciences	IR	IP	-
Marine Studies	IR	IL	IL
Human Genetics	IL	-	-
Economics	IP, IR	IP, IL	IR
Coop. & Applied Economics	2R	IP, IL	IR
Sanskrit	IR	-	-
Hindi	-	IL	-
Politics & Public Admn.	IL	IL	-
Sociology	IR	-	-
Social Work	IP, IR	-	-
Commerce	IP	*1	- *Other
Law	IP	IR	-
Philosophy	IP	IR	-
Parapsychology	IR	IL	-
History & Arch.	2L	-	-
C.I.S.L.	5others	-	-

1  
1  
1

Total                    6P, 18R    5P, 7R    3R and  
                                  11L &    12L &    4L  
                                  5(0)      1(0)



University Grants CommissionPART(V)

Report of the UGC Visiting Committee to  
Postgraduate Centre, Guntur (Andhra University)  
23rd January, 1975.

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The Committee constituted by the University Grants Commission to examine development proposals visited Postgraduate Centre, Guntur, on 23rd January, 1975 and held discussions with the University authorities, academic staff, representatives of students and teachers and citizen's Committee at Guntur. The Committee consisted of:

1. Professor S. Gopal  
Member, U.G.C. Convenor
2. Professor R.S. Krishnan,  
Vice-Chancellor,  
Kerala University,  
Trivandrum.
3. Professor A.K. Saha,  
Department of Geology,  
Presidency College,  
Calcutta.
4. Professor J.K. Irani,  
Deptt. of Commerce,  
Mysore University,  
Mysore.
5. Professor A.C. Jain  
Department of Chemistry,  
Himachal Pradesh University  
Simla.
6. Professor R. Nagabhushnam  
Zoology Department  
Marathwada University  
Aurangabad.
7. Professor A.M. Shah  
Department of Sociology  
Delhi University,  
Delhi-7
8. Professor Romila Thapar  
Centre of Historical Studies,  
Jawaharlal Nehru University, New Delhi.

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9. Professor A. Gnanam  
Department of Biological Sciences  
Madurai University,  
Madurai-21
10. Shri I.C. Menon Secretary of the Committee  
Deputy Secretary  
U.G.C., New Delhi.

General Observations

Guntur is situated 200 miles away from Waltair and the Postgraduate Centre offers facility for postgraduate education for students in the four adjoining districts of Guntur, Krishna, West Godavari and Ongle.

The postgraduate Centre at Guntur was started during 1967-68 alongwith the other Postgraduate Centres at Warangal under Osmania University and at Anantpur under Sri.Venkateswara University. The Centre has 10 departments (1) English, (2) Telugu, (3) Mathematics, (4) Physics, (5) Chemistry, (6) Botany, (7) Zoology, (8) Economics, (9) Commerce and (10) History and Archaeology.

The Committee is of the view that various departments may be grouped together as the School of Languages, School of Physical Sciences, School of Biosciences and the School of Social Sciences in order to have proper interaction. This will also ensure proper development and diversifications on desired lines in course of time.

1. Department of English.

The Department has 40 students in M.A.(Previous), 40 students in M.A.(Final) and 49 students for the Diploma Course. The sanctioned staff of the Department is one professor, one Reader and two lecturers. This is a most promising department and the present staff are keen and competent. The introduction of the M.A.(semester system) with its Internal Assessment would increase the work-load of the department. The department would also like to start a postgraduate diploma course in the Teaching of English with four papers and new areas of specialisation. We, therefore, recommend one post of Professor, one post of Reader and 2 lecturers, Rs.20,000/- for books and Rs.10,000/-for equipment, fellowships 2 (1 senior)

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Recommendations

Staff	1P, 1R, 2L
Books	0.20 lakhs
Equipment	0.10 lakhs
Fellowships	1

2. Deptt. of Telugu

The sanctioned staff of the Department is one professor, two readers, three lecturers and four assistant lecturers. The introduction of M.A. (semester system) with its internal assessment would increase the work-load of the department. In order to strengthen the teaching and research work of the Department, one lecturer and Rs.20,000/- for books are recommended. Fellowship 1.

Recommendations

Staff	1L
Books	0.20 lakhs
Fellowships	1

3. Department of Mathematics

The Department is now running M.A. course with intake of 40 students each year. There are 7 research scholars and the research activities are confined to lattice theory and rings and modules. The sanctioned strength of staff consists of one professor, one reader, one lecturer and two associate lecturers, of which the professor's post is vacant. This should be filled with a specialised person in lattice theory. One additional post of Reader in Boolean Algebra and one lecturer in statistics are recommended. A grant of Rs.0.30 lakhs is recommended for books and journals. Fellowship 1.

Recommendations

Staff	1R, 1L
Books	0.30 lakhs
Fellowships	1



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4. Department of Physics:

The Department is running M.Sc. course in Physics with two specialisations, viz., solid state physics and theoretical physics, with an intake of 18 students a year. At present twenty-two research scholars are working for Ph.D. and 10 Ph.Ds per year are turned out from the department. There are four post-doctoral fellowship holders. The present staff consists of two Professors, (One is a National Fellow) one Reader, two Lecturers and one Associate Lecturer. The Department has been carrying on under the leadership of the two able professors with commendable research work in certain aspects of solid state physics. More facilities have to be provided to the department in the form of equipment and books and journals. One reader in Applied Spectroscopy and two lecturers are recommended during the fifth plan period. An equipment grant of Rs.3.00 lakhs and a library grant of Rs.50,000 are recommended for strengthening the existing facilities of the department. One fellowship is recommended. The intake of students for the M.Sc. course can be increased to 30 students a year.

Recommendations:

Staff:	1R, 2L
Books.	0.50 lakhs.
Equipment.	3.00 lakhs.
Fellowship.	One.

Central Workshop:

A grant of Rs.3.00 lakhs may be provided for Workshop building, equipment and technical staff(3).

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5. Department of Chemistry:

The Department has one Professor, two Readers and two Lecturers and the intake is 12 for M.Sc. The department offers specialisation in Analytical Chemistry. The department is making good progress. Two readers (organic and Inorganic) and two lecturers (Organic and Physical), two fellowships, Rs.3.00 lakhs for equipment and Rs.1.00 lakh for books and journals may be approved.

Recommendations:

Staff	2R, 2L
Books	1.00 lakh
Equipment	3.00 lakhs
Fellowship	1

6. Department of Botany

The Department has one Professor, one Reader, two Lecturers and three associate Lecturers. The intake is 24 for M.Sc. and there are 8 full-time research scholars. Specialisations offered are (1) Soil Micro-biology (2) Wood Anatomy (3) Plant Embryology and (4) Morphogenesis. Rs.2.00 lakhs for equipment, Rs.0.50 lakhs for books, Rs.0.50 lakhs for Glass House, Field Station as a common facility for Botany and Zoology departments at an estimated cost of Rs.1.00 lakh are recommended. 2 Readers (Plant Physiology/Plant Embryology/Plant Pathology) may be provided. 1 Fellowship is recommended.

Recommendations

Staff	2 R
Books	0.50 lakh
Equipment	2.00 lakhs
Fellowship	1
Glass House and Field Station	1.50 lakhs

7. Department of Zoology

The department was started in 1967 during the IV Plan for offering postgraduate courses in Zoology leading to M.Sc. degree with specialisations in fishery science and limnology. The present strength of the staff is one professor (Fishery Science) one Reader (Estuarine Biology) and two lecturers. The department admits 24 students for M.Sc. (Prev.) At M.Sc. (Final) the department offers two specialisations viz., limnology and fishery science. 12 students are engaged in research and so far the department has produced two Ph.Ds.

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Part V

During the V Plan the department desires to consolidate and strengthen teaching and research in the fields of fisheries, limnology and ecology. The department appears to be one of a few in India to offer a teaching course in physiological ecology which is gaining ground abroad. The department is also engaged in the faunastic survey of Lake Kolleru near Guntur. However, there is so far no field station in that area nor transportation facilities for effective field studies. The equipment and library are poor due to limited funds.

During the V Plan the department is recommended one professor (Limnology), 1 Reader (Fishery Science/Physiology), 1 Lecturer, Rs.2.00 lakhs for equipment including vehicle and Rs.0.50 lakh for Books and Journals. One Fellowship is recommended. Botany and Zoology departments may coordinate their programmes as a School of Biosciences.

Recommendations

Staff	1P, 1R, 1L
Books	0.50 lakhs
Equipment	2.00 lakhs
Fellowship	1

8. Deptt. of Economics

There are 40 students at M.A. (Previous) and 40 students at M.A. (Final). The sanctioned staff of the department is one professor, one reader and one Associate Lecturer. One post of Reader is vacant. The introduction of the M.A. (semester system) with its internal assessment would increase the work-load of the department. The department is well qualified in Mathematics, Economics and would also like to introduce Econometrics for which it requires desk calculators. The Committee recommends the creation of one post of Reader (Mathematical Economics), one post of lecturer (Agricultural Economics) and Rs.25,000/- for equipment and Rs.0.30 lakhs for books and journals. One fellowship is recommended.

Recommendations

Staff	1R, 1L
Books	0.30 lakhs
Equipment	0.25 lakhs
Fellowship	1

ESJ

9. Department of Commerce

There is a great rush of students for admission in the department, and the total students strength is 200 for M.C (previous) being 100 (in two sections) and M.Com.(final) also 100 (in two sections). The sanctioned staff of the department consists of one professor, one reader, three lecturers and one part-time lecturer. The staff is over-worked and with the introduction of M.Com(semester system) with its Internal assessment, the work-load would further increase. The department would also like to diversify its courses by offering more optionals at M.Com.(final). We, therefore, recommend the creation of one post of Reader, three posts of lecturers and one fellowship besides Rs.0.30 lakhs for books and Rs.0.15 lakhs for equipment.

Recommendations

Staff	1R, 3L
Books	0.30 lakhs
Equipment	0.15 lakhs
Fellowship	1

10. Department of History and Archaeology:

The department has one Reader and two Lecturers. The enrolment is 19 for M.A.(previous) and 14 for M.A.(Final). The department is specialising in Ancient History and Archaeology. The Guntur Centre could be developed into a good base for the study of Archaeology.

The following restructuring of the syllabus is suggested:

The compulsory papers should cover broad areas of study of both Ancient History and Archaeology. The optional papers should provide a reasonable choice for those who wish to specialise in Ancient History or in Archaeology. Such an arrangement is possible even within the existing suggestions for courses. The additional innovation which needs to be emphasised is a strong input of socio-economic history which is necessary both for a familiarity with the "New Archaeology" as well as giving a more meaningful direction to the study of Ancient History.

One Reader, one lecturer (the specialisations will depend upon the rearrangement of courses), one lecturer (preferably with a special knowledge of the either Buddhist period or Buddhist Art and Architecture) and one lecturer

(39)

Part V

--:8:--

in Geology with some understanding of the relevance of geology to pre-historic archaeology may be provided. The request for a chemical laboratory and a museum, seem somewhat premature at this stage since the facilities of the local archaeological survey could be used for the chemical work and specialisation in Museology should preferably be located at Hyderabad.

Books and Journals : Rs.0.30 lakhs  
Fellowship: 1

Some money will also be required for excavation. This could be finalised through the usual channel.

### Recommendations

Staff 1R, 3L  
Books 0-30 lakhs  
Fellowship 1

### General:

The Centre is temporarily located partly in a private college and partly in the Government polytechnic, five miles away. Even though a permanent site has been acquired between Guntur and Vijayawada town, construction has not yet started.

It appears that about Rs.16.00 lakhs have been collected from the public for the centre with a view to making it a university but in view of the present stage of academic development it will take a number of years and need substantial resources before it can attain the status of a university. What is feasible at the present juncture is to consolidate and strengthen the existing departments by way of necessary inputs, and start construction of essential buildings at the proposed site.

Out of the UGC provision of Rs.50 lakhs for the Centre during the fifth plan about Rs.18.00 lakhs are required urgently for buildings. This is necessary so that the Centre has the minimal physical facilities, but in implementing the projects, it would be useful to plan properly with a few class rooms in each block to be used on a rational schedule by various departments which would be obviating the need for class rooms attached to each department.

40,000 sq.ft. for (1) science block (25,000 sq.ft. - I phase) and (2) humanities block (15000 sq.ft. I phase) @ Rs.50/- estimated at Rs.20.00 lakhs; UGC share Rs.10.00 lakhs (50% sharing basis). Central Library 12,000 sq.ft. (first phase) Rs.6.00 lakhs; UGC share Rs.3.00 lakhs (inclusive of fittings and furniture). Library Books and Journals: Rs.1.50 lakhs.

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9:-

Men's hostel for 50 Rs.2.50 lakhs; UGC share Rs.1.25 lakhs  
Women's hostel for 30 Rs.1.50 lakhs; UGC share Rs.1.125 lakhs

Other essential requirements such as administrative block staff quarters, shopping centre cum transport facilities, will have to be provided by the State Government.

The Committee feels that if the University departments are to guide the colleges in modernisation of the curricula and faculty improvement, it should become in time an affiliating type of university. The UGC may consider this aspect of development of colleges vis-a-vis the University before it finally takes a decision on the nature of the University in consultation with the State Government. The UGC may also provide separately an unassigned grant to the Postgraduate Centres.

- Sd/-
1. Professor S. Gopal
  2. Professor R.S. Krishnan
  3. Professor A.K. Saha
  4. Professor J.K. Irani
  5. Professor R. Nagabhushnam
  6. Professor A.M. Shah
  7. Professor A. Gnanam
  8. Professor Romila Thapar
  9. Professor A.C. Jain
  10. Shri I.C. Menon.

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ANNEXURE I

Part V

ANDHRA UNIVERSITY

P.G. CENTRE, GUNTUR

<u>S.No.Deptt.</u>	<u>Books 100%</u>			<u>Equipment 100%</u>			<u>Building</u>		
	I	II	Total	I	II	Total	I	II	
1. English	0.15	0.05	0.20	0.07	0.03	0.10	-	-	
2. Telugu	0.15	0.05	0.20						
3. Mathematics	0.20	0.10	0.30						
4. Physics	0.40	0.10	0.50	2.00	1.00	3.00			
5. Chemistry	0.70	0.30	1.00	2.00	1.00	3.00			
6. Botany	0.40	0.10	0.50	1.50	0.50	2.00	1.00	0.50	1.50 (Glass House Field Station (50:50))
7. Zoology	0.40	0.10	0.50	1.50	0.50	2.00			
8. Central Workshop				0.70	0.30	1.00	0.70	0.30	1.00 (100 %)
9. Economics	0.20	0.10	0.30	0.15	0.10	0.25			
10. Commerce	0.20	0.10	0.30	0.10	0.05	0.15			
11. History & Arch.	0.20	0.10	0.30						
12. Central Library	1.00	0.50	1.50						
<hr/>									
	4.00	1.60	5.60	8.02	3.48	11.50	1.70	0.80	2.50
<hr/>									

In order to strengthen research 11 fellowships are also recommended. This may come to about Rs. 2.50 lakhs.

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ANDHRA UNIVERSITY

P.G. CENTRE, GUNTUR

Annexure II

<u>S.No.</u>	<u>Department</u>	<u>Recurring</u>			O 100%	<u>Priority</u>		<u>Fellowship 100%</u>
		P 100%	R 100%	L 75:25		I	II	
1.	English.	1	1	2		1R,1L	1P 1L	2
2.	Telugu.			1		1L		1
3.	Mathematics.		1	1		1R	1L	1
4.	Physics.		1	2		1R,1L	1L	1
5.	Chemistry.		2	2		1R,1L	1R,1L	1
6.	Botany.		2			1R	1R	1
7.	Zoology.	1	1	1		1R,1L	1P	1
8.	Central Workshop				3	2	1	
9.	Economics.		1	1		1R	1L	1
10.	Commerce.		1	3		1R,1L	2L	1
11.	History and Arch.		1	3		1R,1L	2L	1
<b>Total:</b>		2	11	16	3	9R,7L 2(0)	2P,2R 9L,1(0)	11

Total recurring cost for the Vth Plan is estimated at Rs.8.20 lakhs of which the share of the State Govt. for lecturers on 25% sharing basis will be approximately Rs.1.20 lakh.

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Annexure III

GENERAL SCHEME (BUILDINGS)

Rs.in lakhs.

	<u>Total</u> Rs.	<u>UGC share</u> Rs.	<u>State Govt. share</u> Rs.
Science Block	12.50	6.25	6.25
Humanities Block	7.50	3.75	3.75
Central Library	6.00	3.00	3.00
50 Men's Hostel	2.50	1.25	1.25
30 Women's Hostel	1.50	1.125	0.375
	<u>30.00</u>	<u>15.375</u>	<u>14.625</u>

S U M M A R Y

Showing the position of allocations of grants on the basis of the recommendations of the IVth Plan Visiting Committee.

A. Allocations as Basic grant

lakhs

(i) Books	Rs.1.00
(ii) Equipment	Rs.2.00
	<u>Rs.3.00</u>

B. New Allocations

(i) Books	Rs. 5.60
(ii) Equipment	Rs.11.50
(iii) Buildings	Rs.17.125
(iv) Recurring	Rs. 3.20
(v) Fellowships	Rs. 2.00

Rs.44.425

C. Towards meeting the excess grant paid/to be paid towards expenditure incurred over and above Rs.30.00 allocated to the PG Centre during the IVth Plan.....

Rs.2.525

Total A + B + C

Rs.49.950

Say.

(Rupees fifty lakhs only)

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Report of the UGC Visiting Committee to  
Sri Venkateswara University (27-28 January, 1975).

The Committee constituted by the University Grants Commission visited Sri Venkateswara University on 27th and 28th January, 1975 and held discussions with the University authorities on the Fifth Plan development proposals of the University. The Committee consisted of the following :

1. Professor S. Gopal Convenor  
Chairman  
National Book Trust  
5A Green Park  
New Delhi.
2. Professor R. S. Krishnan  
Vice-Chancellor  
Kerala University  
Trivandrum
3. Professor A. K. Saha  
Department of Geology  
Presidency College  
Calcutta.
4. Professor J. K. Irani  
Head of the Deptt. of Commerce  
Mysore University
5. Professor A. C. Jain  
Department of Chemistry  
Himachal Pradesh University  
Simla.
6. Professor R. Nagabhushanam  
Department of Zoology  
Marathwada University  
Aurangabad.
7. Professor P. R. Brahmañada  
Economics Department  
Bombay University Campus  
Kalina, Bombay-29.
8. Professor A. Onanam  
Department of Biological Sciences  
Madurai University  
Madurai-21.



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According to the 6 point formula there is regionalisation in the State (a) Andhra region (b) Telengana region (c) Rayalaseema region, according to which 85% of the seats are reserved for candidates from the respective regions. Selection is made on the basis of degree examination marks and interview. 5% of seats are reserved for candidates from Andhra University area on a reciprocal basis.

In the colleges upto the first degree, 75% of the instruction is in Talugu and 25% in English. But for Postgraduate courses English is the medium and will continue to be so for some more time.

1. Department of Mathematics : This department is running a M.Sc. course with an intake of 18 students a year and a M.Sc. course in Applied Mathematics with an intake of 10 students a year. At present there are 6 research scholars working for their Ph.D. degree. The average out turn is one Ph.D. for every two years. The present staff comprises one professor, two readers and seven lecturers, of which two are vacant. There is at present no interaction between the Department of Mathematics with the Department of Physics on the one hand and the Engineering departments on the other. A Professor of applied mathematics is recommended in the fifth plan period in order to strengthen the M.Sc. course in Applied Mathematics by offering special subjects like numerical analysis and linear programming. Attempts should be made to fill up early the ~~vacancies~~ of lecturers' posts. A book grant of Rs.40,000/- is also recommended. The intake of students for both the courses for every year should be increased to 25 each. One fellowship may be provided.

/vacancies

Recommendations :

- Staff : 1 P
- Books : Rs. 0.40 lakhs
- Fellowship : 1

Department of Statistics : This department is now running M.Sc. course with an average intake of 25 students and also an evening Diploma Course in Statistics with an intake of 37 students. The number of research scholars working for Ph.D. is two only. The number of research publications is roughly two per year. The department is conducting lecture courses in Statistics for the Departments of Zoology, Psychology, Economics, Educational Statistics and Anthropology. The Department has one professor, one reader and six lecturers. To strengthen research work in the department, the professors' post should be filled up by appointing an expert in Statistics. A post of reader in Stochastic process is recommended.

(vacant)

This department should be treated as a service department for all. The Department of Statistics should be consulted for design of the enquiry/survey and later statistical analysis for all experimental research or survey work carried on in the University. The proposal of the department to create a data processing centre and survey unit is recommended for acceptance. A data analyst in the lecturer grade shall be provided. An equipment grant of Rs. 1.00 lakh is recommended. Besides, for the purchase of electronic calculators, etc., an additional equipment grant of Rs. 50,000/- is recommended. A grant of Rs. 30,000/- is also recommended for books and journals. The intake of students to M.Sc. course should be increased to 30 per year. One fellowship may be provided.

Recommendations :

- Staff : 1R, 1L
- Books : Rs. 0.30 lakhs
- Equipment : Rs. 1.50 lakhs
- Fellowship : 1

Department of Physics : The department has been in existence during the last twenty years and has done very creditable work on both research and teaching. It is now running an M.Sc. course, with an intake of 40 students. Five special subjects are offered. The number of research scholars working for Ph.D. is 19. The average output of publications per year is 12 and the number of Ph.Ds. produced is 3 per year. There are three post doctoral fellow in spectroscopy. The sanctioned staff consists of one professor, four readers and seven lecturers, of which one reader's post and two lecturer's posts are vacant. The vacant posts have to be filled up without delay. The spectroscopic section in which good work is being carried out should be strengthened in the Fifth Plan with the addition of a professor in spectroscopy so that work on Solid State Spectroscopy, such as spectra of ions in doped crystals, which is of current interest, can be taken up immediately. An equipment grant of Rs. 1.5 lakhs has to be provided for this section. In order to strengthen the facilities for work in solid state physics, electro-acoustics and electronics, an equipment grant of Rs. 3.5 lakhs is recommended. The total equipment grant is Rs. 5.00 lakhs. A grant of Rs. 50,000/- is also recommended for books and journals. Two fellowships are recommended for the department.

Recommendations :

- Staff : 1 P
- Books : Rs. 0.50 lakhs
- Equipment : Rs. 5.00 lakhs
- Fellowships : 2

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The department has put up proposals for starting a post M.Sc. diploma course in Space Physics and in Biophysics. The UGC Committee on Space Physics had recommended only three centres for development of space physics, in which Tirupati was not included. The present committee does therefore not recommend starting space physics course with UGC assistance in this University.

Regarding Biophysics, there are already active centres at Madras and Bangalore. The demand for Biophysicists may not be much. Therefore, the Committee does not feel justified in recommending the starting of this course.

4. Department of Chemistry : The department has two professors one in Physical Chemistry and the other in Inorganic Chemistry. Five Readers (1 vacant) and seven lecturers. Enrolment for M.Sc. is 110. Specialisations are Analytical, Physical Organic, Inorganic and Radio Chemistry. Research Enrolment is 33. Fourteen Ph.Ds were awarded and 46 publications brought out during the fourth plan.

Recommendations :

Staff : 1 P (Organic Chemistry)  
2 R (One in Inorganic Chemistry, 1 in Organic Chemistry) The vacant post of Reader should be filled in Radio Chemistry.

Equipment : Rs. 4.00 lakhs.  
Books and Journals Rs. 1.50 lakhs  
Vacuum-lines : Rs. 0.50 lakhs  
Technicians : 2  
Fellowships : 2

Department of Geology : This is a well established department with 1 professor, 4 readers (1 vacant), 6 lecturers (1 vacant). While the department has basic facilities for research in all major branches of geology, its research output has been only moderate. Intake for M.Sc. course is 15. There are 11 research scholars. Eight Ph.D. were awarded and 120 publications brought out during the fourth plan. However, of late the department has done good work in Hydrogeology as well as Petrology. These areas should be strengthened. The department may also develop a common course in geomorphology with the department of geography and another common course on quaternary geology with the department of Anthropology. These courses should be part of the existing M.Sc. course.

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Though the department is well equipped with conventional instruments some specialised equipment like drilling machine for ground water work, petrological equipment R.I. equipment, accessories for quartz spectrograph and equipment for nuclear geology, sedimentology and geochemistry are required. For X-ray mineralogy work, the Geology Department should utilise the equipment in the Physics Department.

The Department's proposal to carry out extension work in groundwater exploration and development in the drought-prone Rayalaseema areas, in collaboration with various Government and public organizations deserves every encouragement.

Recommendation :

- Staff : 1 P (Petrology/Hydrology)
- Equipment : Rs. 2.50 lakhs (including a drilling machine for ground water work).
- Books and Journals : Rs. 0.50 lakhs
- Fellowships : 2

Department of Zoology : The department has been conducting courses leading to M.Sc. since 1965. The present staff consists of 2 professors. The visiting committee was surprised to find that a Retired Professor, under the UGC scheme of assistance to retired teachers, was actually placed in charge of the deptt. This should not be done and it is not good in practice. The other professor has specialised in Molecular Biology. There are 4 readers and 5 lecturers. The intake of students in M.Sc. is 45 and the department offers four special subjects of which three of them are sub-divisions of Animal Physiology. During the IV Plan the Department has produced 14 Ph.Ds and published 70 papers. At present there are 19 full-time and 3 part-time research workers. Seven of them are working without fellowships. Looking into the progress of the department in the teaching and research during the IVth plan the department needs strengthening in the following way :

Recommendations :

- Staff : 1 P (Comparative Physiology/Neuro Physiology)
- 2 L ( one each in Reproductive Biology and Ecology)
- Equipment : Rs. 3.00 lakhs
- Books and Journals : Rs. 0.50 lakhs
- Animal House : Rs. 1.00 lakh
- Fellowships : 2

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Part VI

Department of Geography: The department started in 1972. It has 1 P (vacant), 1 R and 3 L (1 vacant). The department has 20. Eight diplomas were awarded against the intake capacity of 25.

Considering the location of the University and employment prospects the department should specialise in Geomorphology and Agricultural Geography. Since specialisation in the former needs a science base; therefore, science graduates too must be admitted to the Geography course. There could be greater collaboration with Geology Department for developing courses in geomorphology and for research in that field.

Recommendations:

The vacant posts to be filled without delay.

- Staff : 1 R (Agricultural Geography)
- 1 L (Geomorphology)
- Books : 0.80 lakhs
- Equipment : Rs. 0.50 lakhs
- Fellowship : 1

Department of Botany : The department has 1 P, 4 R (1 vacant) and 5 L. Intake for M. Sc. is 45 and Research enrolment is 18 (3 without fellowships). Research activities in Plant Physiology and Microbiology are commendable. The proposal to start post-M. Sc. course in Plant Physiology and Microbiology may be supported.

Recommendations :

- Staff : 1 P (preferably in virology)
- 2 R (Plant Physiology and Developmental Biology)
- Equipment : Rs. 3.00 lakhs
- Books and Journals : Rs. 0.50 lakh
- Green House Rs. 0.50 lakh
- Fellowships : 2

In view of the work done UGC may consider this department for Special Assistance.

Department of Biochemistry : The University has no trained Biochemist either in Botany or Zoology department. There is an urgent need to appoint Biochemists to cater to the needs of Botany, Zoology and Home Science Departments. It is desirable therefore to have two Biochemists. 1 R and 1 L and attach them to the Department of Botany and Zoology. To start with they can give courses and develop research facilities which may lead to the formation of a fulfilled department in due course. The Divisions of Botany, Zoology and Biochemistry could form a School of Bio-Sciences with Inter-departmental Co-operation.



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Recommendations :

Staff : 1 R, 1 L  
Equipment : Rs. 2.00 lakhs  
Books and Journals : Rs. 0.50 lakhs.

Department of Home Science : The department is running M. Sc. course with the average intake of 14 student per year, although the sanctioned strength is 30. There are at present 4 research scholars working for Ph.D in the department.

The average number of research publications per year is two. The present staff consists of one professor, two readers, four lecturers, two assistant lecturers and one statistician. Besides, two readers posts (on child development and on extension education) are at present vacant. They should be filled up early. The only additional post to be provided in the next plan period is one lecturer to deal with exceptional children. This is recommended for acceptance.

Recommendations :

Staff : 1 L  
Books : Rs. 0.50 lakhs  
Equipment : Rs. 0.50 lakhs  
Fellowship : 1

Central Workshop and Instrumentation and Services Laboratory :

The instrumentation workshop now attached to the Department of physics should be converted to a Central Workshop and Instrumentation and Services Laboratory under the control of an instrumentation engineer/scientific officer (instruments). An electronics shop and a glass blowing shop should be added to this. Staff may be provided to look after the fabrication and repair of electronic instruments. The Central Workshop should not only fabricate instruments for the science departments, but it also should service and maintain the sophisticated instruments in the physics, chemistry, botany, zoology and geology departments.

A non-recurring grant of Rs. 8.00 lakhs is recommended for the purchase of machines and electronic testing equipment. The post of scientific officer/engineer (instrumentation) (reader's scale) and a post of Scientist/Engineer (Lecturer's scale) and 3 technicians are to be created. Rs. 1 lakh may be provided for additional space.

Recommendations :

Staff : 1 R, 1 L  
Technicians : 3  
Equipment : Rs. 8.00 lakhs  
Building : Rs. 1.00 lakhs

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Also some costly equipment required by several departments e.g. atomic absorption spectro-photometer, IR spectro-photometer etc.

Department of Psychology: The enterprising department has one professor, one reader and five lecturers. Intake is 15. Research scholars are 8. The research work is commendable. It has introduced internal assessment and also a tutorial system. The department proposes to have M.A. degree in Psychology with one of the following specialisation:  
 (a) Counselling Psychology, (b) Community Psychology including education psychology, (c) Development Psychology, (d) Experimental Psychology. The department proposes to offer one year post M.A. course in professional counselling, work and development extension work under Community Psychology.

Recommendations:

Staff: 1R (in counselling psychology)

2L (Community Psychology)

Books: Rs. 0.50 lakhs

Fellowships: 2

Department of Philosophy: The department has 1 Professor, two Readers (1 vacant), 4 lecturers (1 vacant). Enrolment for M.A. (Prev.) is 11 and for M.A. (Final) is 6. There are 6 research scholars in the department. Steps should be taken to modernise Philosophy syllabus by introducing subjects like Philosophy of Science and Symbolic Logic. Library does not contain books on Logic Philosophy of Science.

Recommendations:

Staff: 1R (Symbolic Logic)

Books: Rs. 0.50 lakhs

Fellowships: 1

The Reader's post which is vacant and we were told abolished should be revived.

Department of Economics: The department has 1 professor, 2 readers, and 7 lecturers (5 vacant). The research output in the sphere of Economics of education, economics of employment and agricultural economics is of good quality. Enrolment for M.A. (Rev.) is 32 and for M.A. (Final) is 54. There are 9 Research scholars in the Department. The department is at present poorly staffed from the viewpoint of the requirements of a modern postgraduate department.

Recommendations:

The vacant posts of lecturers should be filled.

Staff: 4 R (Specialisation in Mathematical Economics and Statistics, Macro Economic Theory or Monetary Economics, Labour Economics and International Trade).

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Books and Journals : Rs. 1.00 lakhs  
Equipment : Rs. 0.30 lakhs  
Fellowships : 2

Centre for Population Studies : The department has 2 professors (1 vacant) 2 readers (vacant), 4 lecturers (1 vacant) and 4 research fellowships (1 vacant). The department started functioning in 1973-74. The department is completely financed by the FPAI for three years from 1973-76. The postgraduate diploma in Demography was started in 1974-75 with six students. For diploma in Family Health out of 6 students three were admitted in Kurnool Medical College. Teaching will be done by the staff of the Centre in collaboration with the staff of the two Medical Colleges. 15 students will be admitted for certain course in Family Health, Teaching in collaboration with the Medical College Centre.

Recommendations : The committee is of the view that a beginning should be made by developing this department which has already made much headway into a Centre for Demographic Studies at Tirupati with following posts :

Staff : 1P (Demography)  
          1R (Statistical methods in Demographic Analysis and Censuses material).  
          2L (one in family planning and the other in public health).

Books & Journals : Rs. 0.25 lakhs  
Equipment : Rs. 0.25 lakhs  
Fellowships : 2

Since there is no other University Centre specialising in Population Studies in Andhra Pradesh the admission to the P.G. courses in Demography to be organised by the department should be open to students from all parts of Andhra Pradesh. This would necessitate modifications of the regional formula and Presidential Ordinance will be required.

The Committee is of the view that the departments of Economics and the department of Population Studies may be linked as a School of Economics and Population Studies. The two Departments/divisions could have separate heads for functional purposes but there could be a rotating chairman/convenor from among the heads of the two divisions, to plan joint teaching courses and common research guidelines.

Department of Political Science : The Department started in 1970-71. The department has 1 Professor, 1 reader and 3 lecturers. Enrolment for M.A.(Prev.) is 40 and for M.A.(Final) is 61. There are 4 research scholars including two part-time. The diploma in Local Self Govt. is 40. The department wants to introduce Political Geography and Developmental Administration.

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Recommendations :

Staff : 1 L  
 Books & Journals : Rs. 0.50 lakhs  
 Fellowship : 1

Department of Adult Education : The department was started in 1972. This is a career oriented programme. One Reader heads the Department, UGC assistance is outside the plan allocation. Adult and Continuing Education should receive proper attention it deserves but the programme could be organised with inter departmental co-operation. There is no need as proposed by the department for visiting foreign experts.

Department of Commerce : The Department has 53 students for M.Com. (prev.) and 60 students for M.Com. (fin.). It also runs a one-year diploma course in Banking and Accountancy which has 54 students. The sanctioned staff of the Department is 1 professor, 2 readers and 2 lecturers. One Professor (vacant) and 1 Reader (vacant). The diploma course in Banking and Accountancy has 1 lecturer. The Department at present offers only one specialisation viz., an optional group consisting of Cost Accounts and Taxation. It is desirable that the Department offers two more optionals. We therefore recommend 1 post of reader and 1 lecturer.

Recommendations :

Staff : 1 R, 1 L  
 Books : Rs. 0.50 lakhs  
 Equipment : Rs. 0.10 lakhs  
 Fellowships : 1

Department of Law : The department has 2 professors (1 vacant), 2 readers, 4 lecturers and 3 part-time lecturers. The post of 1 professor and 2 readers have been converted into post of lecturers. Enrolment for B.L. First Year is 80, II<sup>nd</sup> year is 80 and III<sup>rd</sup> year is 80. Enrolment for Diploma in Labour & Industrial Law is 45.

Recommendations :

Books and Journals : Rs. 0.50 lakhs

This department is to be shifted to the Postgraduate Centre at Anantapur in lieu of the regulation laid down by the Bar Council of India that Law Colleges should be situated in District headquarter where there are district courts even though located in Anantapur the expenditure should be borne by Sri Venkateswara University.

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Department of Sociology and Anthropology : The department was started in 1971. There are two posts of professors (vacant). Of the 2 readers posts 1 is vacant. There are 6 lecturers. The Reader functions as Head of both Anthropology and Sociology Departments. Enrolment for M. Sc. Physical Anthropology is 46, M.A. Socio-Cultural Anthropology is 44, and M.A. Sociology is 56. Human Genetics should be transferred to the Biosciences division. There are 4 research scholars in the department; 30 papers have been published so far. The major weakness is in having Anthropology and Sociology in a single department and the headship being held by a Physical Anthropologist who cannot give justice to Sociology as well as Social Anthropology. It is therefore, necessary to have a separate department of Physical Anthropology as part of the Faculty of Science and Deptt. of Sociology and Social/Cultural Anthropology. If pre-historic archasology which is a part of the department of Anthropology cannot be developed properly the university should not invest scarce resources in pre-historic archaeology. The only way to develop pre-historic archaeology is to put it in a department of archaeology.

Recommendations :

Books & Journals : Rs. 1.00 lakh.

Department of History : The department has 1 professor, 2 readers and 5 lecturers (1 vacant). Enrolment for M.A. (General History) is 30+21=51. M.A. (South East Asian Studies) 4 + 6 =10. The department proposes to undertake a survey of the temples of Rayalaseema relating to medieval period. The specialisation of the faculty centres round medieval and modern Indian history and of South East Asian History. This may be reflected in the structure of courses.

Recommendations :

Books and Journals : Rs. 0.25 lakhs  
 Fellowship : 1

Department of English : The Department has 20 students at M.A. (Prev.) and 40 students at M.A. (Final). The sanctioned staff of the Deptt. is 1 professor, 2 readers and 5 lecturers. One post of Reader is vacant. The Department desires to start a Diploma Course in English separately for Arts and Science students. We recommend the creation of 1 post of lecturer and Rs. 0.25 lakhs for Books and Journals.

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The department desires also to take up extension work. We recommend Rs. 0.10 lakhs for audio-visual equipment.

Fellowship : 1

Recommendations :

Staff : 1 L  
Books : Rs. 0.25 lakhs  
Equipment : Rs. 0.10 lakhs  
Fellowship : 1

Department of Hindi : The department was started in 1959. The department has one professor, one reader (vacant) and five lecturers. Enrolment for M.A. (Prév.) is 13 and for M.A. (Final) is 15, so far 25 Ph.Ds have been awarded.

The department wants to undertake certain studies like sociological studies of the Medieval Bhakti Literature and appears qualified to undertake it. This may be considered by the UGC Research Council.

Recommendations :

Books : Rs. 0.25 lakhs  
Fellowship : 1

Department of Telugu : The department has 1 professor, 2 readers and 5 lecturers. 30 diplomas were awarded in Linguistics. Research enrolment is 7 full-time and 14 part-time. 7 Ph.Ds were awarded during the last 5 years. Intake for M.A. is 45. The department has an interesting research project on a study of Telugu ..... On an interdisciplinary basis, it desires support from the UGC research council.

Place name  
survey beginning  
with Rayalseema.

Recommendations :

Staff : 1 R in comparative literature  
Books : Rs. 0.25 lakhs  
Fellowship : 1

The University wants to set up a Linguistics department. This does not seem to the Committee to be necessary. Co-operation with the Linguistics Department of Osmania University is suggested.

Department of Tamil : The department has 2 readers, 2 lecturers as against a sanctioned strength of one professor, one reader and two lecturers. The professor's vacancy may be filled. Intake for M.A. is 9. Research enrolment is 4.

Recommendations :

Books & Journals : Rs. 0.25 lakhs.

p. t. o.

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Part VI

Department of Sanskrit : The department has 1 professor, 2 readers (1 vacant) and 2 lecturers. Enrolment for M.A. (Prev.) is 9 and for M.A. (Final) is 7. Ph.D. enrolment full-time is 5. Ph.D. enrolment part-time is 5. The professor is a scholar of international repute well versed in Nyaya Purva Mimasa and Vyakarna. With taking over the Oriental Institute by the University, department will be able to do good work. UGC could consider this department for special assistance.

Recommendations :

- Staff : 1 L (Pali/Pra-krit/Telugu)
- Books : Rs. 0.25 lakhs
- Fellowships : 1

Department of Urdu, Arabic & Persian : The department has 1 professor, 1 reader (vacant) and 2 lecturer (1 vacant). Intake for M.A. is 9. There are 6 research scholars in Urdu and 1 in Arabic. The department has produced 2 Ph.Ds during the IVth Plan. The vacant posts should be filled early and the Department encouraged to undertake research on the subject form of Urdu as manifested in Rayalaseema.

Recommendations :

- Books : Rs. 0.20 lakhs.
- Fellowship : 1

Central Library : A grant of Rs.9.00 lakhs is recommended for the Central Library. The Committee is of the view that in the situation of the University, fragmentation of library into departmental ones is neither academically sound nor desirable.

General Schemes :

Students' Home : Students home for day scholars is an urgent necessity. This may be provided estimated at Rs.1.00 lakhs with UGC share of Rs.0.50 lakhs.

Women's Hostel : A women's hostel for 60 students estimated Rs.3.00 lakhs with UGC share of Rs.2.25 lakhs is recommended.

Teachers' Hostel : One block of teachers hostel with 10 suites of rooms estimated at Rs.2.00 lakhs with UGC share of Rs. 1.00 lakh is recommended.

Staff Quarters : For the teaching staff 10 quarters are recommended. (8 F/R and 12 L ) estimated at Rs.10.00 lakhs as UGC share of Rs.5.00 lakhs

Staff quarters for Non-Teaching Staff:- Forty flats for non-teaching staff at an estimated cost of Rs.10.00 lakhs (as UGC share of Rs.5.00 lakhs) are recommended.

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MISCELLANEOUS SCHEMES :

- a) Visiting Professorships : In order to avail of the services of experts from other universities in academic programmes, a provision of Rs.2.00 lakhs is recommended for visiting professorships. It should be integrally related to the various programmes in the University departments and operated on the principle of complementarity.
- b) Faculty Improvement Programme : Since the university departments have agreed to help upgrade the competence of teachers from colleges a lumpsum provision of Rs.4.00 lakhs is recommended within a plan allocation in order to help the university to start the programme without delay.
- c) Fellowships : With a view to strengthening research in the university departments and to provide for a steady supply of doctorates, the committee is of the view that it is necessary to provide research fellowships during the fifth plan, for which a provision of Rs.7.50 lakhs is made.
- d) Publication : With a view to encouraging publication of high quality research work, monographs and curricular materials etc. a provision of Rs.1.00 lakh is also recommended within the plan allocation.
- e) One Professor mentioned to us that under the present rules, if a member of a Department is awarded a scholarship, this preclude any further awards of scholarships to that Department. If this be the case, the rules will obviously have to be revised.
- f) The Committee does not favour the creation of a new Department of Indology. The subjects proposed are already being taught in existing departments. But the Oriental Institute could be developed at the research level. This could be broadened to include not only traditional area of Indological research but inter-disciplinary research and such subject as Sociology of religion and current Indian economy.

Appendices I to V. ....



Part VI

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Appendix I.

SRI VENKATESWARA UNIVERSITY

summary of spill over + basic + new  
allocation during V Plan period.

.....

A. <u>SPILL OVER</u>	<u>Rs. in lakhs</u>
a) Building	Rs. 1.45
b) Recurring	Rs. 0.40
	<hr/>
	Rs. 1.85
	<hr/>

NEW ALLOCATION

a) Books	Rs. 21.45 *
b) Equipment	Rs. 30.75 *
c) Buildings	Rs. 17.25
d) Others	Rs. 9.00
e) Fellowships	Rs. 7.50
f) Recurring	Rs. 13.00
	<hr/>
	Rs. 98.95
	<hr/>

TOTAL A+B ( i. e. 1.85 + Rs. 98.95 ) = Rs. 100.80

\*P S

Sum of Rs. 3.00 lakhs for Books and Rs. 5.00 lakhs for Equipment earmarked as Basic allocation during V Plan period now forms part of above new allocations of Rs. 21.45 lakhs (Books) and Rs. 30.75 (Equipment) respectively.

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Appendix II.

Part VI

SRI VENKATESWARA UNIVERSITY

BILL OVER STATEMENT FROM IV PLAN  
i. e. as on 31.3.1974.

.....

I. BUILDINGS

i) Science Block	Rs.	49,000/-
ii) Women's Hostel	Rs.	13,600/-
iii) Guest House	Rs.	50,000/-
iv) Teachers Hostel	Rs.	10,000/-
v) Staff Quarters	Rs.	5,000/-
vi) Men's Hostel (Old)	Rs.	11,300/-
vii) Men's hostel (New)	Rs.	6,500/-
	Rs.	<u>1,45,400/-</u>

II. RECURRING

Rs. 40,367-27 paise

GRAND TOTAL I & II

Rs. 1,85,767-27 paise

.....

Part VI

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Appendix III.

SRI VENKATESWARA UNIVERSITY

Department	Staff			
	P	R	L	O
Mathematics	1	-	-	-
Statistics	-	1	1	-
Physics	1	-	-	-
Chemistry	1	2	-	2
Geology	1	-	-	-
Zoology	1	-	2	-
Geography	-	1	1	-
Botany	1	2	-	-
Biochemistry	-	1	1	-
Home Science	-	-	1	-
Central Instrumentation and Services Lab.	-	-	-	5
Psychology	-	1	2	-
Philosophy	-	1	-	-
Economics	-	4	-	-
Centre for Population Studies	1	1	2	-
Deptt. of Political Sc.	-	-	1	-
Commerce	-	1	1	-
Law	-	-	-	-
Sociology & Anthropology	-	-	-	-
English	-	-	1	-
Telugu	-	1	-	-
Sanskrit	-	-	1	-
	<u>7</u>	<u>16</u>	<u>14</u>	<u>7</u>

Appendix IV.

Part VI

SRI VENKATESWARA UNIVERSITY

Departments	<u>Priorities</u>		
	I	II	III
Mathematics	1P	-	-
Statistics	1R	1L	-
Physics	1P	-	-
Chemistry	1P, 1R 2 others	1R	-
Geology	1P	-	-
Zoology	1P	2L	-
Geography	1R	1L	-
Botany	2R	1P	-
Biochemistry	1R	1L	-
Home Science	-	1L	-
C. I. S. L.	5 others	-	-
Psychology	1R	1L	1L
Philosophy	1R	-	-
Population Studies	1R	1P, 1L	1L
Economics	2R	1R	1R
Political Science	1L	-	-
Commerce	1R	1L	-
English	1L	-	-
Telugu	1R	-	-
Sanskrit	1L	-	-

.....

5P, 13R 3L and 7 others	2P, 2R and 9L.	1R and 2L
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/talwar/

Sri Venkateswara University

Appendix VI.

S.No.	Department	Books 100%				Equipment 100%				Buildings			UGC Share	Others 100%				Fellowship	Remarks	
		I	II	III	Total	I	II	III	Total	I	II	III	Total	I	II	III	Total			
1.	Mathematics.	0.20	0.20	-	0.40	-	-	-	-	-	-	-	-	-	-	-	-	-	1.	
2.	Statistics.	0.30	-	-	0.30	1.00	0.30	0.20	1.50	-	-	-	-	-	-	-	-	-	1.	
3.	Physics.	0.30	0.20	-	0.50	2.00	1.50	1.50	5.00	-	-	-	-	-	-	-	-	-	2.	
4.	Chemistry.	1.00	0.30	0.20	1.50	2.00	1.00	1.00	4.00	-	-	-	-	0.50	0.20	-	0.50 *	2	*Vacuum Idro	
5.	Geology.	0.30	0.20	-	0.50	1.00	0.75	0.75	2.50	-	-	-	-	-	-	-	-	-	2	
6.	Zoology.	0.30	0.20	-	0.50	2.00	0.50	0.50	3.00	-	-	-	-	1.00	-	-	1.00 *	2	* Animal House.	
7.	Geography.	0.30	0.30	0.20	0.80	0.50	0.20	-	0.50	-	-	-	-	-	-	-	-	-	1	
8.	Botany.	0.30	0.20	-	0.50	1.50	0.75	0.75	3.00	-	-	-	-	0.50	0.20	-	0.50 +	2	+ Green House.	
9.	Bio-Chemistry.	0.30	0.20	-	0.50	1.00	0.50	0.50	2.00	-	-	-	-	-	-	-	-	-	-	
10.	Home Science.	0.30	0.20	-	0.50	0.50	0.20	-	0.50	-	-	-	-	-	-	-	-	-	1	
11.	Central Workshop Instrumentation & Services Lab.	-	-	-	-	3.00	2.50	2.50	8.00	1.00	-	-	1.00	-	-	-	-	-	-	-
12.	Psychology.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
13.	Philosophy.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
14.	Economics.	0.50	0.30	0.20	1.00	0.15	0.15	-	0.30	-	-	-	-	-	-	-	-	-	2	
15.	Centre for popu- lation studies.	0.15	0.10	-	0.25	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	2	
16.	Deptt. of Pol.Sc.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
17.	Commerce.	0.30	0.20	-	0.50	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	1	
18.	Law.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19.	Sociology and Anthropology.	0.50	0.30	0.20	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20.	History.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
21.	English.	0.15	0.10	-	0.25	0.10	-	-	0.10	-	-	-	-	-	-	-	-	-	1	
22.	Hindi.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
23.	Telegu.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
24.	Tamil.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25.	Sanskrit.	0.15	0.10	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
26.	Urdu, Arabic and Persian.	0.10	0.10	-	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
27.	Central Lib.	3.00	3.00	3.00	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28.	Visiting Professorships.	-	-	-	-	-	-	-	-	-	-	-	-	1.00	1.00	-	2.00	-	-	
29.	Faculty Improve-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	1.00	-	4.00	-	-	

ment programs.

30.	Publications.	-	-	-	-	-	-	-	-	-	-	-	1.00	-	-	1.00	-	
31.	Womens Hostel.	-	-	-	-	-	-	-	2.25	-	2.25	-	-	-	-	-	-	
32.	Students Home	-	-	-	-	-	-	-	-	2.00	2.00	-	-	-	-	-	-	
33.	Teachers Hostel.	-	-	-	-	-	-	-	-	1.00	1.00	2.00	-	-	-	-	-	
34.	Staff Qrs. (Teachers.)	-	-	-	-	-	-	-	-	2.50	2.50	5.00	-	-	-	-	-	
35.	Staff Qrs. (Non-Teachs.)	-	-	-	-	-	-	-	-	-	5.00	5.00	-	-	-	-	-	
		10.25	7.40	3.80	21.45	14.60	8.45	7.70	30.75	3.25	7.50	10.50	17.25	6.60	3.40	-	9.00	29

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Part - VII

University Grants Commission

Report of the UGC Visiting Committee to Postgraduate Centre, Anantapur (Sri Venkateswara University) - 29-30 January, 1975.

The Committee constituted by the University Grants Commission to examine development proposals visited Postgraduate Centre, Anantapur, on 29-30 January, 1975 and held discussions with the University authorities, academic staff, representatives of students and teachers and citizens' committee at Anantapur. The Committee consisted of:

1. Professor S. Gopal Convener  
Member  
University Grants Commission.
2. Professor J.K. Irani  
Department of Commerce  
Mysore University,  
Mysore.
3. Professor A.C. Jain  
Department of Chemistry  
Himachal Pradesh University  
Simla
4. Professor R. Nagabhushnam  
Zoology Department  
Marathwada University  
Aurangabad.
5. Professor P.R. Brahmananda  
Economic Department  
Bombay University, Bombay
6. Professor A. Gnanam  
Department of Biological Sciences  
Madurai University.
7. Shri I.C. Menon Secretary of the Committee  
Deputy Secretary  
U.G.C., New Delhi.

The Postgraduate Centre is situated 12 km. from Anantapur town and more than 400 kms. away from Tirupati, the University headquarters and is located in a 30 acre campus. At present there are two main buildings, one for Physical Sciences and another for Humanities. There are two hostels, one for men students and the other for women

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students. Accommodation is for 75 and 25 students respectively. 10 staff quarters and 20 units of teachers hostel have also been constructed and a small workshop as an extension of the Physical Sciences Block. A separate building for the library is nearing completion.

General Observations:

Anantapur is situated more than 400 Kms away from Tirupati and the Postgraduate Centre offers facility for postgraduate education for students in the adjoining district of Anantapur and Cuddapah. The Centre should consolidate its present activities and have more facilities before it becomes a University, for which we were told that there is a "silent demand" in the area. The Committee is of the view that various departments may be grouped together as the School of Languages, School of Physical Sciences, School of Bio-Sciences and the School of Social Sciences. This will ensure coordinated development and diversification on desired lines.

The Committee recommends that the Centre be given more autonomy in admission of students and planning of courses. At present, students are selected at Tirupati and the Heads of Departments at the Postgraduate Centre are not consulted. The students who are primarily from the local areas would prefer interviews at Anantapur as this would reduce travel expenditure involved in going to Tirupati and the staff also would take a greater voice in admissions.

There should also be separate Boards of Studies so as to avoid repetition of specialisation. But it is more important to give the faculty at Anantapur the psychological satisfaction of exercising initiative and responsibility.

The library is wholly inadequate for postgraduate teaching and advanced research and the working of the research and tutorial system for which a Postgraduate Centre situated at Anantapur is well suited. So the improvement of the library requires the highest priority.

The general facilities at the Centre also require much improvement. This is very poor secretarial assistance (the classification of books in the library for example is in great arrears for lack of typists). There is also a shortage of Telugu typewriters. The University should give immediate attention to this.

The Committee also recommends that University Grants Commission may allocate separately an unassigned grant to this Centre.



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There are seven departments: (1) English, (2) Telugu, (3) Economics, (4) Commerce, (5) Mathematics, (6) Physics and (7) Chemistry.

1. Department of English:

The department has one professor, one reader and three lecturers. The number of students admitted is 13 for M.A. (Prov.) and 23 for M.A. (Final). In order to strengthen and diversify the course, the Committee recommends the creation of one post of Reader, one post of Lecturer, Rs.15,000/- for Equipment and Rs.15,000/- for library; one Fellowship.

Recommendations:

Staff	1 Reader, 1 Lecturer
Books	0.15 lakh
Equipment	0.15 lakh
Fellowships	1

2. Department of Telugu:

The Department has one professor, one reader and three lecturers. The number of students admitted is 23 for M.A. (Prov.) and 42 for M.A. (Final). This is a strong department and the professor has unique contribution of specialisation in Economics and Telugu. The committee recommends the creation of one post of reader, one post of lecturer, Rs.0.15 lakhs for Equipment, Rs.0.15 lakhs for library and one Fellowship. The department should specialise in collaboration with the other departments, in the Economics, Geographical and Cultural aspects of the region.

Recommendations:

Staff	1 Reader, 1 Lecturer
Books	0.15 lakh
Equipment	0.15 lakh
Fellowships	1

3. Department of Economics:

The Department has one Professor, one Reader and three Lecturers (one vacant). The enrolment in

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M.A. (Previous) is 23 and M.A. (Final) is 31. There are four Research Scholars. The area covered by the Centre is large enough to provide a good and continuous flow of students for postgraduate work. The committee recommends one Reader (in Mathematical Economics) with special grounding in Economic Theory and three lecturers (Public Finance, Oceanography and Agricultural Economics), Rs.0.60 lakhs for Books and Rs.0.40 lakhs for equipment and one fellowship.

Recommendations:

Staff	1 Reader, 3 Lecturers
Books	0.60 lakhs
Equipment	0.40 lakhs
Fellowship:	1

4. Department of Commerce:

The Department has one Professor (vacant), one Reader and two lecturers. The enrolment in M.A. (Previous) is 48 and M.A. (final) is 46. There are four research scholars.

The vacant post of professor be filled. The staff requirements of the two departments may be coordinated by combining them into a single School of Economics and Commerce with each present department being treated as a division. The courses in Economics and Commerce could be planned together. The Division of Commerce may avail of the services of the reader in Mathematical Economics from the Division of Economics. One Readership in Commerce (International Trade and Finance), two Lecturers (labour Economics and Cooperative Finance), one fellowship. Rs.0.50 lakhs for Books and Journals and Rs.0.40 lakhs for equipment are recommended.

Recommendations:

Staff	1 Reader, 2 Lecturers
Books	0.50 lakhs
Equipment	0.40 lakhs
Fellowship	1

5. Department of Mathematics:

The department has one professor (vacant), one Reader and three lecturers. The enrolment for M.Sc. (Previous) is 17 and M.Sc. (Final) is 22. There are four research scholars in the department. The professor should be filled as early as possible.

The Department wants to offer two specialisations in pure Mathematics (Measure Theory and Representation Theory)

and in Applied Mathematics (Magneto Hydro-dynamics and Stratified Flows), One Reader (in Pure Mathematics) and one lecturer in Statistics and one fellowship are recommended. Rs.1.00 lakh for books and journals, Rs.0.40 lakhs for equipment and Rs.0.10 lakhs for Computer time are recommended.

Recommendations:

Staff	1 Reader, 1 Lecturer
Books	1.00 lakh
Equipment	0.40 lakhs
Fellowship	1
Computer Time	0.10 lakhs

6. Department of Physics:

The department is running M.Sc. courses with two special subjects, molecular physics and semi-conductor electronics. The intake per year is 38. There are at present four research students working for their Ph.D. degree. The main fields of research of the Department are molecular physics and ultrasonics. The facilities available in these fields have to be strengthened as there are experienced staff to do good work.

The present staff position is as follows: One Professor, one Reader and five lecturers. One post of Lecturer is vacant. Recently, the department has introduced semi-conductor physics as an additional special subject for the M.Sc. course. This is a step in the right direction. One Reader in semi-conductor electronics, a lecturer, one fellowship, an equipment grant of Rs.3.00 lakhs and a book grant of Rs.1.00 lakh are recommended during the fifth plan period.

As the department is not concentrating on solid state physics, proposal to start work on Mossbauer effect is not recommended.

Recommendations:

Staff	1 Reader, 1 Lecturer
Books	1.00 lakhs
Equipment	3.00 lakhs
Fellowships	1

Central Workshop:

The starting of fabricating and repair of instruments and equipment is recommended as a useful adjunct to the science departments. A sum of 2.00 lakh for machinery

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and equipment and Rs.1.00 lakh for a building are recommended. One Instrumentation Engineer (Reader's scale); one Foreman (Lecturer's scale) and one Electronics Assistant (Lecturer's scale) are recommended.

Recommendations:

Staff	1 Reader, 2 Lecturers
Equipment	2.00 lakhs
Buildings	1.00 lakh

7. Department of Chemistry:

The Department has one Professor, one Reader, six lecturers. The enrolment for M.Sc. (Previous) is 39 and M.Sc. (Final) is 63. There are four research scholars in the department (two without fellowship). One Reader (Inorganic Chemistry), two Lecturers (in Organic and Physical Organic Chemistry) and one fellowship, Rs.400 lakhs for equipment and Rs.1.50 lakhs for books and journals are recommended.

Recommendations:

Staff	1 Reader, 2 Lecturers
Books	1.50 lakhs
Equipment	4.00 lakhs
Fellowship	1

8. Department of Legal Studies:

The faculty of Law was established at Sri Venkateswara University, Tirupati and it has been shifted in 1974-75 to Anantapur in deference to the recommendations of the Bar Council of India, that a Law College should be located in a place where there is at least a district court. The department is temporarily located in a local college and a separate building is required. The department proposes to start postgraduate courses in Law and undertake research. Presently the staff consists of one Reader and four Lecturers (one part-time). The enrolment for B.L.(1st year) is 75 and (2nd Year) is 71.

The University has acquired land in Anantapur town and it is proposed to have a Social Science Building with 12,000 sq.ft. at an estimated cost of Rs.6.00 lakhs (UGC share Rs.3.00 lakhs) in the town which will accommodate departments of Economics and Commerce as well. This is useful and necessary for inter-departmental courses of teaching and research. The Professor and the entire faculty will shift to Anantapur during 1975-76. A grant of Rs.2.00 lakhs for books and journals is also recommended.

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Two fellowships. But the expenses of the Law Faculty should be borne by the Sri Venkateswara University and not by the Postgraduate Centre.

Recommendations:

Fellowships	2
Books	2.00 lakhs
Buildings	3.00 lakhs

9. Department of Bio-Sciences:

A new department of Bio-Sciences will be started at Anantapur offering courses leading to M.Sc. and Ph.D. degrees; based on modern biological concepts and without duplicating the courses at the parent departments. There are 10 colleges in the districts of Anantapur and Kurnool offering Botany, Zoology, Chemistry group at the B.Sc. level.

The Committee is of the view that the recommendation of the UGC Expert Committee in 1972 may be implemented, during the fifth Plan. At the M.Sc. (Previous), there will be common integrated and co-ordinated core courses with facilities to diversify into Botany, Zoology, Biochemistry, Microbiology etc. in M.Sc. Final. As the funds are limited, the Centre may take up Botany and Zoology OR Microbiology and Biochemistry as lines of specialisation to begin with. Introduction of semester system and a separate Board of Studies will be useful.

2 Professors (Botany, Zoology), 4 Readers, of whom one is in Biochemistry, 4 lecturers (2 in Botany and 2 in Zoology) are recommended. Staff may be recruited for different fields of specialisations: in addition to

Equipment : Rs.3.00 lakhs  
 Books and Journals: Rs.1.50 lakhs  
 Animal House and  
 Plant Growth rooms: Rs.1.00 lakh  
 Building estimated at Rs.8.00 lakhs  
 UGC Share : Rs.4.00 lakhs

Recommendations:

Staff	2 Professors, 4 Readers, 4 Lecturers.
Books	1.50 lakhs
Equipment	3.00 lakhs
Animal House*	1.00 lakh
Bioscience Block	4.00 lakhs

\* & Plant Growth Room.

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General Schemes:

Men's hostel for 30 students at an estimated cost of Rs.4.00 lakhs (UGC share Rs.2.00 lakhs) and extension to the women's hostel to accommodate 25 students estimated at Rs.1.00 lakh (UGC share 0.75 lakh) may be provided.

- Sd/-
1. Professor S. Gopal
  2. Professor J.K. Irani.
  3. Professor A.C. Jain
  4. Professor R. Nagabhushnam
  5. Professor PR Brahmananda
  6. Professor A. Gnanam
  7. Shri I.C. Menon.

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Part-VII

Annexure I

Department	<u>Books</u> 100%			<u>Equipment</u> 100%			<u>Buildings</u>			UGC share	
	I	II	Total	I	II	Total	I	II	Total		
English	0.10	0.05	0.15	0.10	0.05	0.15					
Telugu	0.10	0.05	0.15	0.10	0.05	0.15					
Economics	0.40	0.20	0.60	0.30	0.10	0.40					
Commerce	0.30	0.20	0.50	0.25	0.15	0.40					
Mathematics	0.70	0.30	1.00	0.25	0.15	0.40					
				0.10	-	0.10	(Computer time)				
Physics	0.70	0.30	1.00	2.00	1.00	3.00					
Central Workshop				1.50	0.50	2.00	0.70	0.30	1.00	100%	
Chemistry	1.00	0.50	1.50	3.00	1.00	4.00					
Legal Studies	1.25	0.75	2.00				1.50	1.50	3.00		
Biosciences	1.00	0.50	1.50	2.00	1.00	3.00	0.70	0.30	1.00	Animal House	
							3.00	1.00	4.00	Bio-sciences Block 50:50	
			8.40				13.60				9.00

General Schemes

Hostel for men (30)							1.00	1.00	2.00	
Women's Hostel extension (25)							0.40	0.35	0.75	
							2.75			

'CHUGH'

Sri Venkateswara University  
P.G. Centre, Anantapur

DepartmentRecurring

	<u>Recurring</u>			<u>Fellowships</u>		<u>Priorities</u>	
	<u>P</u> 100%	<u>R</u> 100%	<u>L</u> 75:25%	<u>O</u> 100%	<u>100%</u>	<u>I</u>	<u>II</u>
English		1	1		1	1R 1L	
Telugu		1	1		1	1R	1L
Economics		1	3		1	1R 1L	2L
Commerce		1	2		1	1R 1L	1L
Mathematics		1	1		1	1R 1L	
Physics		1	1		1	1R 1L	
Central Workshop				3		2(0)	1(0)
Chemistry		1	2		1	1R 1L	1L
Legal Studies					2		
Biosciences	2	4	4			2P 2R 2L	2R 2L
	2	11	15	3	9	2P 9R 8L & 2(0)	2R 7L & 1(0).

SUMMARY

Showing the position of Basic & New allocations on the basis of the recommendations of the Vth Plan Visiting Committee.

BASICRupees in lakhs

(i) Books	1.00
(ii) Equipment	2.00
	<u>3.00</u>

NEW ALLOCATIONS

(i) Books	8.40
(ii) Equipment	13.60
(iii) Buildings	11.75
(iv) Fellowship	2.25
(v) Recurring	11.00
	<u>47.00</u>
	= 50.00

(Rupees fifty lakhs only)



UNIVERSITY GRANTS COMMISSION

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Confidential

Meeting: (11)  
Dated: 14/15th July, 75'

Item No. 75 further consider the reports of the UGC Visiting Committee to the universities of Cochin, Calicut and Kerala.

The University Grants Commission at its meeting held on 12th May, 1975 considered the report of the UGC Visiting Committee on the Universities of Kerala (vide item no.12) and desired that the above reports may be examined by a sub-committee in the light of the discussions held at the meeting of the Commission and brought up before the Commission again.

In view of the above decision a sub-committee was constituted with the following members:

1. Shri K. T. Chandy
  2. Professor M. Santappa
  3. Professor Gautam Mathur
  4. Professor E.S. Rajagopal
- } members of the Visiting Committee.

The sub-committee examined the above report and the required clarifications are given in Annexure A.

The sub-committee is in general agreement with the contents and specific recommendations made in the report. The clarifications and additional information now provided would help to further amplify the recommendations made in the text.

As a result of the review by the sub-committee, a few minor changes have been made in Part(I) of the Visiting Committee report.

The report of the Visiting Committee is in four Parts. Part(I) deals with background information and general observations of the Committee in regard to the development of the universities in the State. Parts (II), (III) and (IV) are the reports on the individual universities at Cochin, Calicut and Kerala respectively.

The draft reports were sent to the members of the Visiting Committee in December, 1974 and their comments received by the first week of March, 1975. In the light of their comments the draft has been modified and finalised. This has been approved by the members.

The presence of the Director of Collegiate Education on the Committee was useful. The discussions held with the Chief Minister, Education Minister and the State Government officials helped in

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clarification of policies and programmes on both sides, which will be conducive to expeditious implementation of the fifth plan through mutual cooperation.

There were 167 colleges in the State in 1973-74; 28 junior colleges, 104 first grade colleges (arts, science and commerce) 19 teachers training colleges, six engineering colleges, for medical colleges, two Ayurvedic Colleges and four Law Colleges with the total enrolment of 1,71,775. The State has one Agricultural University too.

The main emphasis in the report is on improvement of standards and modernisation of courses through inter-disciplinary approach. Not only inter-departmental cooperation in teaching and research but collaboration among the universities in the State in improvement and development of courses is also envisaged. New courses are planned taking into account their relevance and relating them to environment; for instance, development of industrial physics, polymer chemistry, chemical oceanography, marine geology and micro-biology at Cochin University. An M.Sc. course with specialisation in mineral chemistry at Trivandrum, with specialisation in natural products chemistry at Calicut and courses of one year duration in applied fields after M.A., M.Sc. in some of the departments in the universities.

Faculty Improvement Programmes for colleges teachers particularly from postgraduate colleges in the State are contemplated and the universities will jointly work out details. There will be an Apex Advisory Committee of Vice-Chancellors, the Education Secretary and the Directors of Education and a UGC representative to plan coordinated development of higher education in the State. Similarly, there will be frequent consultations among the universities faculty-wise. Every University will have a planning machinery to plan, implement, evaluate and modify programmes of action on an yearly basis.

Fellowships are provided within the allocations so as to strengthen research programmes and to ensure a steady supply of high competent staff for research and teaching.

Visiting Professors are recommended so as to draw expertise from other universities and institutions for short or long durations so that standards of teaching and research could be raised.

The universities propose to extend the semester system in the near future along with modernisation of courses and examination reforms.

The Committee did not consider the proposals for setting up of Institute of Polymer Science/Ship technology at Calicut and Cochin universities since such proposals come under the purview of development of Engineering and Technology. The proposal of the Cochin University to set up an Institute of Health Sciences was also not considered by the Visiting Committee since this come under the Deptt. of Health

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of the State and Union governments.

The financial implications of the recommendations are given below:

Cochin University:

During the fourth plan, in 1968, the UGC had sanctioned schemes worth Rs. 26.49 lakhs to the then Ernakulam Centre which was under Kerala University, of which Rs. 23.27 lakhs were utilized. The recommendations of the UGC Visiting Committee (1972) for schemes after the Centre became Cochin University amounting to Rs. 48.00 lakhs and conveyed to the University in 1973 could not be implemented during the last year of the fourth plan. These programmes were considered by the present Visiting Committee and have been included after modifications wherever deemed necessary in consultation with the university. The financial implications of the recommendations within the ceiling allocation of Rs. one crore for the university are:

A. Spill-over schemes	Rs. 3.23 lakhs
B. Basic Grants:	
a) Books	Rs. 3.00 lakhs
b) Equipments	Rs. 5.00 lakhs
C. New allocations against UGC share:	
Books	Rs. 23.80 lakhs
Equipment	Rs. 26.30 lakhs
Buildings	Rs. 10.75 lakhs
Fellowships	Rs. 3.00 lakhs
Recurring	Rs. 14.50 lakhs
Miscellaneous	Rs. 2.80 lakhs
Total for (C)	Rs. 89.15 lakhs
Grand Total (A+B+C):	Rs. 100.38 lakhs

Taking the spill-over and the basic grants approved during 1974-75, the anticipated outlay (non-recurring) will be:

<u>1st priority</u>	Rs. 43.42 lakhs
<u>2nd priority</u>	Rs. 20.50 lakhs
<u>3rd priority</u>	Rs. 21.95 lakhs
Total NR + Misc.	<u>Rs. 85.87 lakhs</u>
<u>Recurring</u>	
<u>1st priority</u>	Rs. 7.50 lakhs
<u>2nd priority</u>	Rs. 4.00 lakhs
<u>3rd priority</u>	Rs. 3.00 lakhs
Total	<u>Rs. 14.50 lakhs</u>

(14)

(392)

About Rs.14.50 lakhs are estimated for recurring for 8P, 9R and 23L and 6 others. Of these 5P, 8R and 4L and 3 others (first priority).

2P, 4R, 9L, 4 others (second priority)  
1P, 5R, 9L and 1 others (third priority)

This will have to be taken over by the State Govt. at the end of the fifth plan. The share of the State Govt. for recurring during the fifth plan on sharing basis is estimated at Rs.2.00 lakhs.

The share of the State Government for buildings during the fifth plan in the three priorities is Rs.16.25 lakhs. (5.25 +3.5+7.5)

Calicut University

During the IVth Plan, the UGC had sanctioned schemes worth Rs.79.28 lakhs for the University out of which the University had utilised about Rs.65.00 lakhs. The financial implications of the Vth Plan recommendations are:-

A. Spill-over schemes:

A. Buildings	Rs.13.70 lakhs
B. Staff	Rs. 0.73 lakhs
	<u>Rs.14.43 lakhs</u>

B. Basic Grants

a) Books	Rs. 3.00 lakhs
b) Equipment	Rs. 5.00 lakhs
	<u>Rs. 8.00 lakhs</u>

C. New allocations against UGC share

a) Books	Rs.33.55 lakhs
b) Equipment	Rs.29.00 lakhs
c) Buildings	Rs.22.75 lakhs
d) Recurring	Rs.28.00 lakhs
e) Others/Misc.	Rs. 4.70 lakhs
f) Fellowships	Rs. 9.60 lakhs
	<u>Rs.127.60 lakhs</u>

Grand Total (A+B+C) Rs.150.03 lakhs (rounded Rs.1.50 crores)

Taking the spill-over and the basic grants approved during 1974-75, the anticipated outlay (non-recurring) will be as under:

<u>1st priority.</u>	Rs. 60.33 lakhs
<u>2nd priority</u>	Rs. 29.50 lakhs
<u>3rd priority</u>	Rs. 32.20 lakhs
<u>Total: (NR+Misc.)</u>	<u>Rs.122.03 lakhs</u>

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Recurring

<u>1st priority</u>	Rs. 15.00 lakhs (8P, 13R, 13L, other 3)
<u>2nd priority</u>	Rs. 8.50 lakhs (3P, 14 R, 12L and others 3)
<u>3rd priority</u>	Rs. 4.50 lakhs (1P, 1R, 15L and 1 others)

at the end of the Vth Plan.

This will have to be taken over by the State Government. /  
The share of the State Govt. for recurring during the fifth plan is estimated at Rs. 3.00 lakhs.

The share of the State Government for buildings during the fifth plan in the three priorities is Rs. 18.25 lakhs (Rs. 3.5 + 6.0 + 8.75)

The allocation for Calicut University is Rs. 150 lakhs.

Kerala University

During the IV Plan, the UGC had sanctioned schemes amounting to Rs. 80.50 lakhs of which about Rs. 62.00 lakhs were utilized. The financial implications of Vth Plan recommendations are :

A. Spill-over schemes

i) Buildings	Rs. 14.30 lakhs
ii) staff	Rs. 2.88 lakhs
iii) Misc. schemes	Rs. 1.50 lakhs
	<u>Rs. 18.68 lakhs</u>

B. Basic Grants

i) Books	Rs. 5.00 lakhs
ii) Equipment	Rs. 7.50 lakhs
	<u>Rs. 12.50 lakhs</u>

C. New allocations against UGC scheme

i) Books	Rs. 36.05 lakhs
ii) Equipment	Rs. 44.80 lakhs
iii) Building	Rs. 35.50 lakhs
iv) Others	Rs. 14.30 lakhs
v) Fellowships	Rs. 10.00 lakhs
vi) Recurring	Rs. 29.00 lakhs
	<u>Rs. 169.65 lakhs</u>

Grand Total:

A+B+C Rs. 200.83 lakhs

Taking the spill-over and the basic grant approved during 1974-75, the anticipated outlay (non-recurring) will be:

1st priority	Rs. 90.50 lakhs
2nd priority	Rs. 41.00 lakhs
3rd priority	Rs. 40.33 lakhs
Total (NA+Misc.)	Rs. 171.83 lakhs

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Recurring

1st priority Rs. 11.00 lakhs (5P, 15R, 4L and others 3)  
2nd Priority Rs. 10.00 lakhs (3P, 12R, 7L and 2 others)  
3rd Priority Rs. 8.000 lakhs (1P, 2R, 14L)

This will have to be taken over by the State Government at the end of the Fifth Plan. The share of the State Government for recurring during the Vth plan as per sharing basis is estimated at Rs. 4.00 lakhs.

The share of the State Govt. for buildings during the Vth plan in the three priorities is Rs. 32.00 lakhs (6+11+15).

The allocation for Kerala University is Rs. 2.00 lakhs.

The reports are placed before the Commission for consideration.

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UNIVERSITY GRANTS COMMISSION

Annexure A

Minutes of the meeting of the Sub-Committee  
to consider the report of the Visiting  
Committee to Universities in Kerala

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As per decision of the UGC meeting vide item 12 of 12.6.1975 a sub-committee consisting of two members of the visiting committee and two members of the Commission examined the report of the Visiting Committee on the Universities in Kerala. The sub-committee consisting of Professor Gautam Mathur, Professor E.S. Raja Gopal and Shri I. C. Menon met in Delhi on 5th June, 1975 and the sub-committee consisting of Shri K. T. Chandy and Professor M. Santappa, Professor E. S. Rajagopal and Shri I.C. Menon met in Bangalore on 8th and 9th June, 1975.

The Sub-Committee is satisfied with the contents and specific recommendations in the report. It feels that no general revision of the report is necessary. The clarifications offered below in regard to the specializations of Readers and Professors would help to supplement the recommendations made in the body of the text.

Part-I

Part I has been modified with minor changes.

Part-II Cochin Univ.

Page 5:- School of Law:- 3 Readers as indicated in the text are in Administrative Law, Labour Law, Criminal Law or Tax Law. One post of Reader is vacant so that 1R is available for each area. Two Readers are recommended in the first priority and one Reader in the second priority.

Page 5:- Division of Applied Economics:- 1P, 2R and 2L must be in Applied Economics as in the text, reiterating the recommendations of fourth plan committee.

Part-III Calicut Univ.

Page 3:- Department of Chemistry:- 1R in the first priority is in Analytical Chemistry.

Page 4:- Deptt. of Physics: 1R(1st priority) and 1P(2nd priority) between them they should cover Applied/Theoretical Physics.

Page 6: Department of Botany:- 1R(1st priority), 1P(2nd priority) between them they should cover wood anatomy/tissue culture or/ethnobotanical studies.

Page 8: Department of Commerce:- 2R(one in first priority and one in third priority), in Financial Management/Industry. The University may choose the Reader in first priority for either subject.

Page 10: Department of English: 1P(first priority), 1R(2nd priority, Professorship preferably in Language.

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Page 11: Department of Mathematics:- 1P(Applied Mathematics), 2R(Pure Mathematics/Statistics). 1P and 1R in first priority and 1R in second priority.

Page 12: School of Fine Arts and Drama:- There should be flexibility in regard to qualifications, emoluments and designations.

Page 13: (Department of Economics):- 1P, 1R(first priority), 1R(second priority) M-acro- Economics/Political Economy/Statistics). Between them they should cover these areas.

Page 14: Department of Psychology: 1P(first priority), 1R(second priority). Between them they should cover the psychology of different groups of Labour force.

Page 14: University Library:- Two Assistant Librarians(delete lecturer's scale): One Deputy Librarian(delete lecturer's scale)

Part-IV Kerala Univ. Page 1: Department of Mathematics: 1P(first priority), 1R(2nd priority) both in the area of Applied Mathematics.

Page 2: Department of Physics: - Since 9 colleges are having M.Sc. course as also the University Department the Committee recommends emphasis on post M.Sc. programme. 1P, 1R(first priority), 2R(second priority), 1P in Applied Electronics, 3R in Material Sciences/Solid State Physics/Electronics. The University may choose any of the three areas for the Reader in first priority and in the second priority, the other two areas.

Page 3: Department of Chemistry: 1R(second priority) in Mineral Chemistry.

Page 4: Department of Geology: 1R(first priority), 1P(second priority), 1R(third priority). Between them they should cover Marine Geology/Economic Geology.

Page 5: Department of Zoology: 1P(first priority), 1R(2nd priority). Between them they must cover Physiology/Environmental Biology. The University may choose either area for the professor and the other for the Reader.

Page 7: Department of Economics:- 2R(one in first priority and one in second priority in Political Economy/Micro-Economics/Quantitative Analysis. There is a vacant professorship which could be used for a Visiting Professorship or filled permanently. The three posts should thus cover the three areas.

Page 7: Department of Politics:- 1R(first priority), 1P(2nd priority). In accordance with the recommendations and perspective as in the text the reader and professor selected should have a background, in Political Sociology.

Page 8: Department of Psychology:- One Reader(first priority) in Industrial/Social Psychology.



Page 8: Department of History:- 2L(delete one in Islamic History).  
The Committee is of the view that priority attention of the department should be focussed on cooperative teaching at the M.A. level in Trivandrum enlisting the services of teachers in the colleges.

Page: 9: Department of Sociology:- 1P(first priority), 1R(second priority)  
Between them they must cover Sociology of Development/Urban Sociology.  
The University may choose either area for the first priority.

Page 12: Department of English: 1R(first priority) in English Language rather than in literature).

Page 13: Central Library:- (delete reader's grade line 4 and line 13.  
The Sub-Committee is of the view that under the scheme of Visiting Professorships, provision should be made to utilize upto 5% of the allocation for contingent expenditure such as stationery secretarial assistance etc. by the departments concerned, analagous to provision for book grants.

- Sd/-
1. Shri K. T. Chandy 9.6.1975
  2. P rof. M. Santappa 8.6.1975
  3. P rof. E.S. Rajagopal 5.6.1975
  4. Prof. Gautam Mathur 5.6.1975
  5. Shri I. C . Menon 5.6.1975

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UNIVERSITY GRANTS COMMISSION

Report of the UGC Visiting Committee to universities  
in Kerala State (18-28 November, 1975)

PART I

The Visiting Committee constituted by UGC visited the universities of Cochin, Calicut and Kerala from 18-28 November, 1974 to assess the fifth plan development proposals of the universities. The Committee consisted of the following:

1. Professor N. V. Thirtha  
Department of Education  
Bangalore University                      Convenor
2. Professor E. S. Rajagopal  
Department of Physics  
Indian Institute of Science,  
Bangalore.
3. Professor N. R. Deshpande  
Deptt. of Political Science  
Nagpur University.
4. Professor Agasthalingam  
(Centre of Advanced Study in Linguistics  
Annamalai University).
5. Dr. N. K. Panikkar  
Member  
National Commission on Agriculture  
New Delhi (Since appointed as Vice-Chancellor of Cochin University)
6. Professor Gautam Mathur  
Deptt. of Economics  
Osmania University (Did not visit Cochin University)
7. Dr. (Mrs.) Molly Thomas,              (Nominee of the State Govt.)  
Director,  
Collegiate Education  
Trivandrum.
8. Shri. I. G. Menon                      Secretary of the Committee  
Deputy Secretary,  
UGC, New Delhi.

The Committee held discussions with the Chief Minister, Education Minister and their advisers; the Vice-Chancellors, academic staff of the departments, the syndicates and also met representatives of student unions, non-teaching staff and a Citizen's Committee from Kottayam. At the meeting of the Committee with the Chief Minister

\* Passed away in April 1975

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and the Education Minister, the Vice-Chancellors of Calicut and Kerala universities and the Pro-Vice-Chancellors of Cochin University were present.

Background: Kerala is one of the smallest states in the country with an area of 38,864 sq.km. and with a population of 21.4 millions in 1971. This represents 1.03% of the total area of India and 3.89% of the total population.

The State is divided into 11 districts:

<u>District</u>	<u>Area Sq.km.</u>	<u>Population(1971)</u>
Alleppey	1809	2125722
Cannanore	5699	2365164
Ernakulam	2368	2377020
Idikki	5126	553955
Kottayam	2203	1537337
Kozhikode	6688	2106249
Malappuram	3865	1856362
Palghat	5113	1885342
Quilon	4849	2412821
Trichur	2974	2128797
Trivandrum	2195	2198606

The principal crops are Rice, Sugarcane, Banana, Arecanut, Cashew nut, Tapioca, Coconut, Tea, Coffee, Rubber, Ginger, Pepper, Oilseeds including coconut, cardamom. The State is deficient in food-grains mainly rice to the extent of 50%. Fisheries are well developed in the State and there are immense potentialities. The State is rich in minerals like ilmenite, rutile, monazite and sillimanite as also clays, quartz, sand, lime shell etc. The State is endowed with abundant forest wealth, and hydroelectric potential. A number of organizations including the State Department of Industries and Commerce, Kerala State Industrial Development Corporation, Kerala Financial Corporation and Kerala State Small Industries Corporation are ready to assist industrial entrepreneurs by providing technical and financial assistance.

Unemployment is rampant in the State and estimated around 18 lakhs. It is particularly acute among technically and professionally qualified persons.

Literacy and Education The State with a literacy percentage of 60.42(1971) census is the leading State in the country in education. There is 100% enrolment of the age group in primary education; 78% enrolment of the age group in middle school; 31.2% of the age group in secondary schools. As far as School education is concerned the State occupies the front rank.

Enrolment in higher education is 8.5 per thousand population as against the All India figure of 6. Postgraduate enrolment is 300 per million population as against the all-India figure of 250.

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Research enrolment is 15 per million population as against the all-India figure of 22. The State has to cover much ground in research.

The State has 4 universities - the Kerala University, the Cochin University, the Calicut University and the Kerala Agricultural University.

The establishment of more and more Arts, Science Colleges became inevitable because the number of students seeking college education increased steadily over the years. There was considerable expansion in the number of colleges in the early 1960's, particularly postgraduate colleges but of late the position is becoming stable. There were 120 arts and science colleges during 1969-70 as against 124 in 1973-74 of which 28 are junior colleges.

This rapid expansion has been at the expense of quality at all levels. During 1974-75 out of about 4,00,000 students who appeared for SSLC only 21% passed. It is reported that at the first evaluation only 10% of the students had secured pass marks and by generous moderation 21% of the students managed to pass. This dismal record of wastage is primarily attributed to the poor quality of teaching which in turn is related to the standards in postgraduate colleges. Nearly 85% of all postgraduate enrolment is in the 42 colleges. Proliferation of postgraduate colleges has not only led to lowering of standards but is also responsible for unemployment among them. Postgraduates seeking employment registered with employment exchanges are more than 3000.

The Chief Minister in his discussion with the Committee explained that the 50% of the State Government budget was spent on education. The State has achieved the target of 100% enrolment at the primary stage in keeping with the constitutional obligations and 78% of the students in the age group at middle schools. This expansion at the bottom of the educational pyramid is responsible for expansion in higher education as well. It was stated by the Chief Minister that the Government was against indiscriminate expansion of higher education and has not given affiliation to new undergraduate and postgraduate colleges during 1974-75 and would like to follow the same policy in future. The future expansion at the undergraduate level would be through non-collegiate education by permitting private appearance of candidates and postgraduate expansion will be in modern diversified and relevant fields in the university departments. For this purpose, as well as expansion of research where the State has to make much leeway to catch up with the rest of India, the State would look up to the UGC for generous support and encouragement particularly by way of research support as well as by increasing the number of UGC fellowships, to the universities. It was also suggested to the Committee that UGC may make good the

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differential between the UGC fellowships (Rs. 400/-per month) and the University fellowships (Rs. 300/-p.m.)

Co-operative Teaching

The Committee is of the view that further expansion of postgraduate colleges would not be in keeping with the attainment of academic excellence and it is gratifying to note that the State Policy is not to encourage this. In order to improve standards, it is, therefore, necessary that the universities in the State should organise cooperative teaching wherever there is a cluster of postgraduate colleges in a town by pooling the resources and facilities in the colleges. It would also be necessary to ensure such co-ordinated development through a university professor or Reader in each subject for which purpose University Centres may be set up. It is not necessary to set up more universities. The university professors or readers from these centres in major towns can organise and co-ordinate the programme of cooperative teaching.

Where there is centralized Co-operative teaching, the students can still belong to individual colleges and take part in their extra-curricular activities and facilities of sports grounds, hostels, study centres or qualify for colleges bursaries, scholarships, prizes etc. This would be acceptable to the colleges in general as the State Government is meeting a large part of the expenses of postgraduate education in individual colleges, and any college which sends its students or teachers to the P.G. Centre would continue to be considered a Postgraduate institution.

Faculty Improvement Programme:- It would also be useful and necessary- This was emphasised by the universities- to launch Faculty Improvement Programme for teachers particularly those from postgraduate colleges where hardly 5 to 10% have research qualifications. In order to make a beginning without delay the Committee recommends a small provision for this purpose within the plan allocation but the bulk of it may be supported by the UGC outside the plan.

In view of the recognised need and urgency for upgrading the competence of teachers in service, fellowships may be awarded to teachers from colleges, during the period of their attachment in the University Department for one academic year. Besides familiarising themselves with research methodology, the teachers may update their knowledge in regard to content and teaching methods and also take up projects on curricular reforms in the light of recent developments. On the basis of performance, such teachers may be awarded M. Phil. degrees. Promising teachers in this category may be given further assistance to do their doctorates.

Fellowships:- Fellowships are recommended with a view to attracting

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and retaining bright young scholar in research. It is suggested that 50% of the fellowships may be provided to outstanding students from other universities and States upto 20% could be senior fellowships. Insularity and inbreeding are a harmful influence to be guarded against. It is necessary and useful to institute pre-Ph.D. programmes like M.Phil.

The M.Phil. programmes are thus two dimensional in character. Teachers from colleges may be assisted under the programme not only in the University departments in the State but also outside in Centres of Advanced Study and departments of Special Assistance and UGC on a planned basis. Such an exposure of teachers to the widening boundaries of knowledge is an essential pre-requisite in raising of standards on such and related issues. The UGC may prepare detailed guidelines for the benefit of the universities without delay.

The Universities impressed upon the Committee that all these programmes will be undertaken through joint efforts and inter-departmental cooperation as well as Inter University co-operation wherever required.

Apex Advisory  
Committee

This point, also came up at the visiting committee meeting with the Chief Minister who suggested that it would be useful to have increasing measure of cooperation between the State Government, Universities and the UGC through periodical consultations, with a view to sorting out problems and knowing in advance the programmes responsibilities and financial implications of the plans and projects in higher education in the State for which purpose the State Government would like to enlarge the scope of the present advisory committee of Vice-Chancellors and Secretaries to the Government with the addition of a representative from UGC, Director of Medical Education, Director of Agriculture and others concerned. The Committee is of the view that periodical consultations through this machinery will go a long way in coordinated development of higher education and that the UGC may accept this suggestion.

As regards funds for development of higher education, the State Government would do its best to provide about Rs.3 crores for development of the three universities in the State during the fifth plan or atleast to the extent of Rs.2.25 crores but this would depend upon the resources position.

Inter-University  
Committees

As a corollary to the Apex Advisory Committee suggested above the universities propose to set up Committee for inter-university cooperation in various disciplines or groups of related subjects. This will be helpful in evolving cooperative programmes of teaching and research on the principle of complementarity including faculty improvement programmes. The Committee is gratified to note that there is understanding and appreciation in the

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universities about the need for inter-disciplinary approach in teaching and research.

Planning Machinery:- In this connection the universities have favourably responded to the suggestions of the Committee in setting up a planning machinery in each of the universities. Since planning is a total concept involving not only formulation of programmes, projects and plans but also implementation and evaluation at regular intervals, it is suggested that a compact, composite and representative planning machinery be evolved in the universities. This will help in identifying bottlenecks and delays at various stages and taking timely corrective measures in implementation according to time-schedule and the feed-back will be useful to University Grants Commission on an annual basis in taking stock of the situation. The UGC may evaluate the performance of the universities departmentwise every year and offer helpful suggestions to the universities for expeditious implementation of the plan programmes.

The Visiting Committee was impressed with the degree of decentralization of power and delegation of authority by the V-ice-C-hancellor of the Calicut University to the Heads of Departments in so far as day-to-day administration of the departmental affairs are concerned. This could be extended down the line within the departments, even in matters like purchase of books and equipment, so that everyone in the Department has a sense of participation. Participative management in higher education as elsewhere is extremely desirable on all counts, since this will lead to cooperation and harmony among all concerned. The Committee therefore, recommends this approach to administration to the Cochin University and the Kerala University.

Inter-disciplinary Approach

The committee is gratified to note the steps taken by the Cochin University and notably the Calicut University in ensuring proper coordination in borderline areas through inter-disciplinary approach. This is achieved through the School of Languages, School of Social Sciences, School of Physical Sciences and School of Biological Sciences. This is a worthwhile attempt which will lead to better research output, improve and modernise teaching and reduce expenditure avoiding duplication of costly journals, instruments and equipment. Closely related is the attempt of each of the universities in the State to have a Central Instrumentation and Services Laboratory and Workshop manned by qualified and experience scientists/engineers. In the programmes of the Universities, the Central Workshop and Instrumentation Laboratory will play a pivotal role, not only in servicing of equipment and instruments but also in design, development and fabrication of new ones, besides imparting training in basic skills in the case of machinery(glass work, metal work, wood work and electronics)Project work will be an integral part of the master's and M.Phil. programmes in the sciences.

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University Library

Generally the University libraries should be a common facility, which can be availed of by students and teachers alike. In order to derive maximum advantage and benefit, fragmentation of the Central Library into departmental libraries or duplication in departmental libraries should be avoided. This need not apply to multiple copies of textbooks in great demand by students. This could best be done through a compact and composite library committee in which students could also be represented. However, provision is made for the departments to obtain back volumes of journals and subscribe to new journals as well as specialised requirements of the departments. Most of these acquisitions could be kept in the Central Library. The departments, however, could requisition books and journals from the Central Library periodically for their use. Details could be worked out by the user departments according to requirements and on an agreed basis and in the local context.

The semester system has been introduced in some of the university departments and they will be extended to more departments in the near future. In order to enrich academic programmes, it is useful and necessary to obtain the services of experts from other universities/institutions like IIT's, TIFR, I.I.Sc. for which purpose a provision is made for visiting professorships within the plan.

Norms for Administration

Another point which came up at the meeting with the Chief Minister relates to the question of evolving norms for administration in the University system. The Chief Minister requested the Committee to convey to the UGC that the Commission may undertake a depth study of the administrative structure of the universities in the State with a view to evolving a pattern of staffing in relation to the workload and functions so as to establish a co-relation between academic development and the administrative machinery which may lead to a rational allocation of funds for various sectors and purposes in the field of higher education. At Cochin University, the strength of non-teaching staff is more than the students and teachers put together as also in Calicut and nearly so at Trivandrum. Even without the paraphernalia of examinations work in the affiliated colleges the Cochin University has no such functions, since no colleges within the jurisdiction of 10 miles has agreed to affiliate with or become a constituent part of the Cochin University. The size of the non-academic staff has become too flabby in a short time to warrant such expansion in relation to the programmes, enrolment etc. The pressure for such jobs will not ease till the educational system is in a position to turn out employable graduates in productive fields to a great extent. The financial burden of the State has been accentuated with the take-over of the responsibility by the State Government of direct payment of salaries to college teachers and developmental support for colleges.



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Study of Hindi

The other point which has struck the Committee is the ease and readiness with which Hindi is spreading in the State and this is as it should be. Hindi is very popular as a second language in the colleges and in the University Departments at Calicut and Cochin. It is a paradox that the University at the State capital does not have a Hindi Department, and representations have been made to the Committee by research scholars and students at Trivandrum ~~know~~ for having a Department at Kerala University. There are more than 40 research scholars registered for Ph.D. in Hindi at the Kerala University. It was also brought to the notice of the Committee that funds would be available for library from Hindi Sahitya Sammelan, Allahabad, Kashi Naagri Pracharini Sabha and Central Hindi Directorate, Delhi and that Central Government do provide substantial amounts for development of Hindi in non-Hindi States. The proposal is to start a special Hindi course with Hindi main and any one of the modern Indian languages as a subsidiary language at Trivandrum. The Department proposes to have one year M.Phil. course, two years M.Litt. course and three year Ph.D. Inter-disciplinary research between Hindi and other Dravidian Languages will be developed.

Considering various aspects of the issue the Committee recommends that instead of setting up a separate Department at Trivandrum also, it would be better academically as well as financially if the Department of Hindi at the technologically oriented University of Cochin is transferred to the Kerala University at Kariavattom Campus. This will be in keeping with the aims and objectives of both the Cochin and Kerala Universities. It is, therefore, suggested that no fresh enrolment for M.A. and research should be made at Cochin University in the Hindi Department hereafter i.e. from academic session 1975-76, but the staff, books and journals should be transferred to Trivandrum, and in about two year's time the transfer could be completed. The University Campus at Trivandrum should accommodate the Hindi Department in the School of Languages and Social Sciences. This will release the language block at Cochin University for its other development needs.

The Kerala University had proposed a new department of ~~X~~ Communication Arts which included the wider range of Mass Communication media and the grooming of Communication Researchers etc. at an estimated cost of Rs. 12.00 lakhs. Though the Committee felt it to be a good proposal, it could not support it due to financial constraints. Initially however the University may go-ahead with the Department of Journalism in a small way as already sanctioned by the UCC ~~towards~~ towards the end of the fourth plan and which could not be started so far. This department may also keep the above proposal prospects in view so that in course of time a full-fledged department of Communication Arts could be developed on firm foundation. The Calicut University has also proposed to start

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a new Department of Journalism. An evening diploma course has been started in a local college in cooperation with newspapers in Calicut. In order to give proper direction to this course, the University would like to make a small beginning so that they could obtain the services of some professionals and experts in the field on short-term or long term basis. The Committee has, therefore, recommended one post of reader and lecturer but while making appointments suitable weightage should be given to professional qualifications and experience.

The three universities could not fill many vacancies due to certain technical and legal difficulties. One of the important hurdles is the insistence in the new Acts of the Universities that posts should be filled according to communal reservations as per rules of the State Government. The Committee is of the view that in making academic appointments merit and academic considerations should be the criteria although other effective measures may be undertaken to promote the interests of scheduled castes/tribes and other unquestionably backward sections of society. This point was also discussed by the Committee with the Chief Minister and his advisers and they were in general agreement with this.

But since there are difficulties in overcoming these obstacles in the short run, the Committee is of the view that for the vacant posts of professors and readers as well as for the new posts recommended in the report, the universities should have the freedom to obtain top academicians either as visiting professors or on deputation for one or two years to start the Departments and to get them going on sound footing. Since a number of modern courses have been recommended, it will be academically sound to obtain services of experts for short or long durations, according to requirements of the specific courses. Such a flexible mechanism in the system is absolutely necessary. In addition, Visiting Professorships have been provided for under 'Miscellaneous Schemes to strengthen specific areas.

In order to encourage corporate life in the three university campuses which are new, it is necessary to provide sufficient accommodation for students and staff. Health Centres, Student Homes and Canteens are also essential facilities of an urgent priority. During the next 5-10 years the University Campuses should have all essential facilities.

The State Government would also like the UGC to take up the question of providing funds for staff quarters and hostels with LIC, HUDCO and other agencies so that loans are made available to the universities for these purposes on a priority basis and favourable terms. At the meeting with the Chief Minister it was

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also agreed that the State Government would examine the possibility, of some/the University staff residences / of being accommodated within the programmes of State Housing Schemes.

The Committee did not examine the proposals for setting up of Polymer Institutes at Calicut and Cochin Universities nor those relating to Ship Technology. These may be assessed by a joint team of UGC and AICTE without delay since they are crucial to the development of the State.

The Committee records its sincere thanks and gratefulness to the State Government, the universities, the Vice-Chancellors, teachers, students and administrative staff for their cooperation extended to the Committee during its visit to the State.

The State Government made available to the Committee services of the Director of Collegiate Education Dr. (Mrs. Molly Thomas who accompanied the Committee to all the three universities and gave valuable information and assistance to the Committee. The Committee thanks the State Government for associating a senior official with this work.

- Sd/-
1. Professor N. V. Thirtha \*
  2. Professor E. S. Rajagopal
  3. Professor N.R. Deshpande
  4. Professor Agasthalingam
  5. Professor Gautam Mathur
  6. Dr. N.K. Panikkar
  7. Shri I.C. Menon

\* Passed away in April 1975

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PART II Report of the Visiting Committee to the Cochin University  
(November 1974)

The UGC Visiting Committee visited the Cochin University from 18-20 November 1974 held discussions with the Vice-Chancellor, Pro-Vice-Chancellor the Syndicate, Heads of Departments and staff, research scholars, student unions and non-teaching staff.

Background : The Cochin University was established in 1971 as a federal type University with the aim of developing industrially and technologically based higher education and research. Particular emphasis would be given on post-graduate studies and research in Applied Sciences, Technology, Industry and Commerce. The territorial jurisdiction of the University extends over Greater Cochin. The University campus has an area of 72 hectares which houses the existing Departments of Study and Research. The University has recently acquired the Cochin Palace at Tripunithura and the Administrative Offices of the University have been shifted to the spacious Palace buildings which are situated on a 25 hectare plot of land, 22 kilometres away. A contour survey of the site has been taken; and the best use of the land and buildings is being worked out.

The University of Cochin has been charged with the responsibility of making the fullest use of the industrial character of the area. The facilities for research and study in the industrial establishments around the University are national assets much too valuable to remain isolated from the educational system. The Committee is convinced that job-oriented education could be appropriately organised and carried out only in a milieu in which fruitful research and its applications are going on simultaneously; and therefore has to be closely linked with industry, particularly in its new developmental activities. The attempts made during the last two years to secure the cooperation and collaboration of the industries in the area ought to be intensified during the years ahead. The location of the University in the vicinity of the Cochin Harbour, the Cochin Shipyard and the Fisheries Complex, provides scope for a variety of courses of study and research in subjects like Naval Construction, Marine Engineering and Fishery Technology. In respect of the last item there is a possibility of Inter-University cooperation with the Agricultural University, Trichur, which is planning to enter the field of Fisheries with assistance from ICAR. The industrial setting of the University is the basis of the proposal for the expansion of the existing School of Management Studies into a School of Social Sciences, as well as the Legal Studies and establishment of Electronics Development and Research. Industrial Chemistry will be developed under the School of Physical Sciences in the division of Applied Chemistry. Again the key position of Cochin vis-a-vis major source of rubber and other hill products in the country had encouraged the University to start a degree course in Rubber processing and Technology two years ago; and now there is a proposal to establish a full-fledged Institute of Polymer Science and Technology, which has the potential of developing into an All-India institution, pending which the division of Applied Chemistry will be engaged in the development of this field on a multi-disciplinary basis. Finally, a large number of well established modern hospitals are now functioning within a radius of about 30 kilometres around the Cochin University but with their teaching potential unutilized. This is a unique situation in this country.

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Collectively these hospitals provide a substantial portion of the infra-structure required for programmes in Health Sciences proposed by the University, but this may be examined by the Ministry of Health and related agencies.

The present Committee did not examine the proposals relating to Division of Management Studies, Division of Polymer Technology and Naval Architecture cum-Ship Technology which comes under the jurisdiction of the All India Council of Technical Education. But the Committee is of the view that for the development of the above courses the support from AICTE is of prime importance, if the university is to achieve its avowed objectives.

At present there are five Departments of Study and Research in the University which was set up as the erstwhile Ernakulam Centre of the Kerala University. In order to meet the challenges offered by the situation and environments of the University, it is proposed to reorganise and develop the existing departments into a number of well defined schools consisting of appropriate divisions. This pattern while ensuring on the one hand decentralisation and delegation of authority at all levels, would facilitate inter-disciplinary programmes of study and research and a system approach to problems. During the Fifth Plan it is proposed to reorganize the Divisions/Departments of the University into Five Schools.

1. School of Physical Sciences : The existing department of Physics and the new departments of Applied Chemistry, Mathematics and Statistics will constitute the School of Physical Sciences. The present student strength in the Physics Department is 42 for M.Sc. courses and 13 for Ph.D. It is expected that the student strength will increase during the Fifth Plan period to 100, for M.Sc. M.Phil. and Ph.D. The present staff strength is 1 Professor (vacant), 3 Readers and 5 Lecturers. The Committee is of the view that the University may take early action to fill the vacant post of Professor. The Division of Physics should concentrate on Electronics and Industrial Physics including Polymer Physics in close cooperation with the Division of Applied Chemistry which may be started without delay :

Recommendations :

Staff : IP (Industrial Physics) IR  
IL

Books and Journals : Rs.2.00 lakhs.

Equipment : Rs.5.00 lakhs

Fellowships : 2

2. Department of Applied Chemistry :

The Fourth Plan Committee recommended one lakh rupees for book and Rs,3 lakhs for equipment. Though this was sanctioned by the UGC during 1973, the Department could not be started. The sanctioned staff is one Professor, three Readers and three Lecturers. The Committee recommends among other things one Additional Professor. One Professor will be in Polymer Chemistry. In case while the other one may be in industrial Chemistry. In case of any difficulty to fill the post at higher levels the university may obtain the services of experts from appropriate institutions in the country, either on deputation or as Consultants/Advisers. The expenditure incurred in this regard may be reckoned against the provision made for staff and or visiting professors. Service

of part time experts may also be obtained for conducting specific courses of short and long term duration.

The proposed intake is 20 students per annum. The Division will also undertake short-term diploma/certificate courses for B.Sc. with a vocational bias in industrial chemistry, analytical techniques, testing of food and drugs and related fields.

Recommendations :

Staff : 2A (Polymer Chemistry, Industrial Chemistry) 3R, 3L

Books and journals : Rs.2.50 lakhs

Equipment and Gas Plant Rs.6.50 lakhs

Fellowships : 2

3. Division of Mathematics and Statistics :

Though the Department of Mathematics and Statistics was sanctioned by UGC in 1973, the University could not start the Department. This will be started during the current plan. There will be two courses, one in Applied Mathematics and another in Pure Mathematics with an intake of 15 to 25 students in each course and five for research.

The Committee does not approve of the Computer Centre during the Fifth Plan. Computer time may be purchased according to requirements.

Recommendations :

Staff : 2P (Applied Mathematics and Pure Mathematics)

2R (One in Statistics)

4L (2 Pure Mathematics and 2 Applied Mathematics)

Books and Journals : Rs.2.50 lakhs

Equipment : Rs.0.30 lakhs

Fellowships : 2

4. School of Marine Sciences

The School of Marine Sciences (formerly known as the Department of Marine Biology and Oceanography) was established in 1938. Besides conducting two M.Sc. courses, one in Marine Biology and the other in Oceanography, students are admitted for doctorate degree also. The research activities of the Department consist of investigation of problems connected with all branches of Oceanography. A few schemes sponsored by the U.G.C. and Ministry of Defence are also worked out in the Department.

During the Vth Plan period it is proposed to start courses in Marine Meteorology and Chemical Oceanography. In order to step up the pace of development of the Department it is proposed to expand it into five Divisions (1) Biological Oceanography (2) Chemical Oceanography, (3) Physical Oceanography (4) Marine Geology and (5) Fishery. The above reorganisation takes note of the proposals of the National Committee for Science and Technology to expand Oceanography and Fishery activities of the country during the Vth Five Year Plan period with a

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view to exploiting to the maximum the living as well as the non-living resources of the Indian seas. Currently there are 32 M.Sc. students, 12 full-time Research Scholars and 10 part-time. The strength of admission to both the M.Sc. courses and research programme has to be increased considering the demand in manpower required for Oceanographic investigations during the Vth plan period.

The present staff position is 1 Professor, 2 Readers, 6 Lecturers, 2 Research Officers and 2 Research Assistants. In 1973-74, the Fourth Plan Visiting Committee recommended three posts of Readers and three posts of Lecturers which could not be filled. Posts of three Readers in Marine Biology, Chemical Oceanography and Physical Oceanography are vacant as well as three posts of Lecturers created during Fourth Plan all of which are recommended. Of the six existing Lecturers, one post is vacant as well as one of research assistant. The vacant posts should be filled early.

The School should start short-term post M.Sc. Diploma particularly in Chemical Oceanography, Marine Geology and selected aspects of Fisheries in cooperation with the Kerala Agricultural University. Post B.Sc. Diploma/Certificate courses with a vocational bias may also be conducted in selected fields/including marine Meteorology. To fulfil these objectives, the Committee recommended a post of professor in Chemical Oceanography in which fields there is acute paucity of personnel. With a view to rapidly organising and developing capabilities in Marine Geology, the Committee recommends the provision of a Professor in this field for initiating training programmes for exploration and exploitation of the living resources of the ocean-bed a field which has recently assumed high national importance.

Recommendations :

- Staff : 2P (Chemical Oceanography, Marine Geology)  
3R, 3L
- Books and Journals : Rs.2.50 lakhs
- Equipment : Rs.6.00 lakhs
- Aquarium : Rs.0.50 lakhs
- Building : Rs.3.00 lakhs UGC share
- Fellowships : 3

5. School of Life Sciences : (Microbiology) ; The Committee does not favour the setting up of School of Life Sciences but taking into account the increasing scope for advanced studies and application in Fish and Food Processing industries, a Unit of Micro-biology may be started under the School of Marine Sciences with two Readers and two lecturers (Micro-Biology and Bio-Chemistry). This Unit will work in close cooperation with various divisions of the School of Marine Sciences. The Division may also conduct diploma/certificate courses for graduates in biology. The problems of air-water and marine pollution may be tackled on inter-disciplinary basis.

As well as school of physical Sciences.

Recommendations :

- Staff : 2R (Microbiology, Bio-Chemistry)  
2L
- Books : Rs.2.00 lakhs
- Equipment : Rs.3.00 lakhs

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6. School of Law : The present Department of Law was started in 1962 as a part of Kerala University at Ernakulam and was transferred to the Cochin University in 1971. The Department has now 10 candidates for Ph.D. It offers an LLM course and runs a Law Review. Labour Law has been introduced as a new option for LLM course. A diploma course in Labour Law and a course in Administrative law have also been introduced. Enrolment for LLM is 77. The student strength is expected to increase to 100 for LLM during the fifth Plan and 12 for research degrees. The present staff position is one professor, three lecturers and one research assistant. Posts sanctioned during the last year of the Fourth Plan and lying vacant are one Reader and four lecturers, one Research Assistant. The Committee recommends that as against the above 5 posts (1R+4L) three posts of readers and two lecturers may be provided so that four permanent readers are available one each for Administrative Law, Labour Law, Criminal Law and Tax Law. At present posts of two readers, one full-time and one for part-time are vacant. While the University wants to stop the system of guest teachers, the Committee is of the view that experts available in the vicinity as well as outside may be enlisted for teaching programmes and guiding research, although the Committee would not favour the idea of a situation where almost all teaching is done by part-time experts from outside. The school may also start inservice programmes of short or long duration for teachers from all the Law Colleges in the State.

The School of Marine Sciences and Law and probably Social Sciences could jointly work out inter-disciplinary programmes in Ocean affairs and management a field which is coming into great prominence in world affairs.

Recommendations :

- Staff : 3R, 2L
- Books and Journals : Rs.2.50 lakhs
- Fellowship 1

7. School of Social Sciences

In the proposed school of Social Sciences there will be three Divisions (1) Division of Management Studies coming under AICTE (2) Division of Applied Economics (3) Division of Commerce. The Committee does not approve of the proposed new Division of Public Administration and Local Government.

Division of Applied Economics : The Department of Applied Economics sanctioned by the UGC towards the end of the Fourth Plan could not be started due to some technical difficulties in recruiting the required staff. The IV plan Committee had sanctioned one Professor, two Readers and two Lecturers. This will do for the present. With this staff it should be possible for the Division to provide guidance for proper planning and development of economic activities in industry in the area around Cochin. The Department will conduct post-M.A. Diploma courses and M.Phil in (1) Planning and Development district-wise and (2) Transport Economics in consultation with the Centre for Development Studies as well as Kerala Studies Centre and Survey Research Centre of Kerala University Trivandrum.

Recommendations :

- Staff : 1P, 2R, 2L
- Books and Journals : Rs.2.00 lakhs
- Survey and Monographs : Rs.0.30 lakhs, Fellowship 4
- Fellowship : 1

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Division of Commerce : At present masters' degree course in Commerce is offered in the School of Management Studies. This will now come under the Division of Commerce. It is proposed to start M.Phil. course for teachers of commerce from the affiliated colleges of Calicut and Kerala Universities. Faculty Improvement Programme for college teachers in Commerce on an all Kerala basis will be located in this Division. The Division of Applied Economics and Commerce Division will undertake Field Work and Techno-Economics Surveys of projects with vast employment potential. Thus the School of Social Sciences will also act as a Servicing Agency.

Recommendations :

Books and Journals : Rs.1.00 lakh

Fellowship : 1 -

9. Department of Hindi  
School of Humanities :

The existing Department of Hindi started in 1963 in the Kerala University was brought under Cochin University in 1971. The Department imparts instruction leading to M.A./M.Lit.&Ph.D. degrees. The posts of one Reader and one Lecturer sanctioned by UGC towards the end of the IV plan and not filled are recommended. The present staff position is one Professor, one Reader, four lecturers.

Present student strength is 40 for M.A. and 26 for Research. The student strength is expected to increase to 64 in M.A. and 30 for research during the Vth plan. The location of Hindi Department at Cochin University does not fit in with the technological character of the University, on the other hand there is no Hindi Department at Kerala University, Trivandrum. According to the Committee it will be appropriate if the Hindi Department is transferred to Kerala University, Trivandrum where it will fit in very well with the School of Humanities and Languages. This may mean temporary dislocation but viewed against the context of acute scarcity of resources and the academic justification for having the Department of Hindi at Kerala University, Trivandrum, where there is no immediate problem for accommodation, this Department of Hindi may be transferred to Kerala University.

Recommendations :

Books : Rs.0.50 lakhs 1R, 1L

Fellowships : 1

10. Division of Foreign Languages : The IV plan Committee had recommended and UGC has sanctioned Rs.30,000/- for books, and 3 posts of lecturers, one each in French, German and Russians. These could not be filled. Being a Centre of Trade and Industry, Diploma/Certificate courses in foreign languages will be helpful. This could be done mostly as part-time/evening courses.

Recommendations :

Staff : 3L (Russian, French, German)

Books : Rs.0.30 lakhs

11. Central Workshop and Instrumentation and Services Laboratory

The Fourth Plan Visiting Committee recommended and the Commission sanctioned towards the end of Fourth Plan a Central Workshop. This could not be started during the Fourth Plan. The University wants to implement the project early in the Fifth Plan. The Committee recommends support in this regard. The Workshop may start functioning in the physical Sciences block (ground floor) and necessary

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modification and extension can be made gradually for which Rs.1 lakh has been provided. The Workshop and the Instrumentation Centre should be headed by a competent and qualified Instrumentation Engineer(Superintendent) supported by four technicians one each for wood work, metal work, glass blowing and electronics with 100% support from UGC. The workshop will be nucleus of activities in this technological university not only servicing equipment and instruments but also training science students in basic skills and techniques. The workshop will also undertake development, design and fabrication of equipment, not only for use in the various Departments but will also take up projects work in consultation with local industries, as well as the small Industries Servicing Institute with a view to promotion of small scale industries. This will fit in well with the proposed post-B.Sc. diploma/certificate courses with a vocational bias. It will train science graduates for self employment, as well as service in industry. The requirements of simple equipment for schools and colleges including glass-ware, chemical, furniture for class rooms and laboratories, sports goods, leather-goods plastic goods, rubber products, food processing and packaging components for automobile and shipping industries, paints and varnishes and host of other items provide ample opportunities for the university to serve the State in keeping with its technological orientation.

Recommendations :

Staff : 1 Instrumentation Engineer (Reader's scale)  
 1 Scientist and 4 Technicians

Addl. Space : Rs.1.00 lakhs UGC Share  
 Equipment : Rs.6 lakhs

11. University Library : The IV plan Visiting Committee had recommended and the Commission had sanctioned a library building for Rs.12.00 lakhs with UGC share support of Rs.10.00 lakhs as per norms of assistance during the IV plan. The University could not take up this project during the last year of the IV plan, and would like to take up the project without delay on a priority basis. At present the books are kept in Mathematics-Statistics block as a temporary measure. The Committee recommends Rs.5.00 lakhs for books for the Central Library besides furniture. The post of one Deputy Librarian and One Technical Assistant sanctioned during the Fourth Plan are vacant which may be filled early. Besides the above, the Committee recommends one Assistant Librarian and one Technical Assistant for the University Library.

Recommendations :

Building with furniture estimated at Rs.12.00 lakhs(UGC share Rs.6.00 lakhs)

Staff : 1-Dy.Librarian  
 1-Asst. Librarian  
 2-Technical Assistants

Books and Journals : Rs.6.00 lakhs

12. Student Hostels : The Men's Hostel constructed with UGC assistance at the Ernakulam Centre is fully occupied. The women's hostel also sanctioned in 1968 for 82 students has been completed recently and partially occupied(there are less than 40 girls in the hostel). There is an urgent necessity for another Men's Hostel and the present Women's hostel could be allotted to Men students after completion of a new hostel for 50 girls. This may be given high priority and the Committee recommends Rs.2.25 lakhs UGC share. There is increasing pressure from Men students for a hostel.

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Staff Quarters : There is immediate need for atleast two Professors' quarters, six readers' quarters and 12 lecturers' quarters and 50% support from UGC (Rs.5.00 lakhs) may be provided by the UGC. The University Campus at Thrikakara is situated about 10 Km- away from the nearest town(Ernakulam) which is already overcrowded, has inadequate residential facilities. Lack of adequate transport facilities is another genuine difficulty of the students and teachers, which the university may look into as a matter of urgently.

Guest House : The University also requires a guest house on a priority basis with UGC support of Rs.1.50 lakhs. In view of the special characteristic of the university, several outstation experts will be required as guest lecturers who may have to be housed in the campus itself. Four double rooms and eight single rooms may be provided initially for this purpose.

Student Amenities : The students also represented to the Visiting Committee seeking support for establishment of a Health Centre, Students Home for day scholars (with canteen facilities). A composite building with facilities may be provided. This may be assisted outside Vth Plan allocations to the University as per UGC norms, of assistance to student welfare programmes.

Visiting Professorships & Fellowships : With a view to strengthening research in the departments and to provide for a steady supply of doctorates, the Committee recommends Research Fellowships during the Vth Plan for which a provision of Rs.3.00 lakhs is made. In order to have the services of eminent scholars from other universities, IITs', National Laboratories etc. to develop various programmes to a high level, a scheme of Visiting Professorships is recommended with a provision of Rs.4.00 lakh.

/in the  
neighbour-  
hood

Shopping Centre : The students and teachers have no facility for purchasing items of daily necessity. Taking into account the genuine difficulties in this regard, the university may initiate early action for setting up of a Shopping Centre at least a cooperative store in the Campus. There is no provision for UGC assistance in this regard.

Administrative Block : At present the Administrative offices are located at the Cochin Palace, Thripunithara, 22 km. away from the Campus. In view of the paucity of funds, the State Government is not in a position to sanction funds for Administrative Block and staff quarters for non-academic staff at the University Campus, Thrikakara. Instead the Government has placed at the disposal of the University a palatial building in a 75 hectare campus to be used by the University for this purpose. This is not a satisfactory arrangement, since bifurcation between the administrative and academic wings leads to a lot of problems in fact, it already has. It is, therefore, necessary that an administrative building may be constructed at the University Campus itself, to ensure smooth administration and prompt inter-action between the administration and the academic community.

- Sd/-
1. Prof. N.V. Thirtha
  2. Prof. E.S. Rajgopal
  3. Prof. N.R. Deshpande
  4. Prof. Agasthialingam
  5. Prof. Gautam Mathur
  6. Dr. N.K. Panikkar
  7. Sh. I.C. Menon

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ANNEXURE

COCHIN UNIVERSITY

Summary showing the position of Spill over @ Basic + New allocations on the basis of 5th Plan Visiting Committee.

A	<u>SPILL OVER</u>	<u>Rs. in lakhs</u>	<u>Rs. in lakhs</u>
	(i) Building	1,95,333	Appx. I
	(ii) Staff	1,27,511.85	
		<u>3,22,844.85</u>	3.23
B	<u>BASIC</u>		
	(i) Books	3.00	
	(ii) Equipment	5.00	
		<u>8.00</u>	8.00
C	<u>NEW ALLOCATIONS (UGC Share)</u>		
	(i) Books	23.80	
	(ii) Equipment	26.30	Appx. II
	(iii) Building	18.75	
	(iv) Other/Misc.	2.80	
	(v) Fellowships	3.00	
	(vi) Recurring	14.50	Appx. III
		<u>89.15</u>	89.15
GRAND TOTAL OF A+B+C			<u>Rs. 100.38 lakhs</u>

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Appendix I

Cochin University

<u>Buildings</u>	<u>Spill over amount</u>
1. Science Block I & II	38,333/-
2. Teachers Hostel	"
3. Students Hostel	52,000/-
4. Women Hostel	1,05,000/-
	<hr/>
Total :	1,95,333/-
Staff :	1,27,511.85p
	<hr/>
Grand Total :	<u>3,22,844.85p</u>

The IV Plan Committee had recommended in 1968 Rs.26,49 lakhs to the Ernakulam Centre under the Kerala University, of which Rs.23.27 lakhs were utilised. During 1972-73 another Committee visited, after the Centre became the Cochin University and recommended an allocation of Rs.48 lakhs. The University could not implement most of these schemes in the last year of the IV Plan. These schemes were considered by the Committee and in the light of discussion with the university, the Visiting Committee has included them as such, or with modification for development.

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COCHIN UNIVERSITY

Appendix-II

No.	Department	Books				Equipment				Buildings				Others	Fellow- ships	Remarks
		I	II	III	Total	I	II	III	Total	I	II	III	Total			
(Rs. in lakhs)																
1	Physics	1.00	0.50	0.50	2.00	2.00	1.50	1.50	5.00						2	
2	Appd. Chem.	1.50	0.50	0.50	2.50	3.00	2.00	1.00	6.00					0.50*	2	* gas plant
3	Maths & Stat	1.50	0.50	0.50	2.50	0.15	0.15		0.30						2	
4	Marine Sciences	1.50	0.50	0.50	2.50	3.00	2.00	1.00	6.00	1.50	0.75	0.75	3.00	0.50**	3	** Aquarium
5	Microbiology	1.00	0.50	0.50	2.00	1.50	0.75	0.75	3.00							
6	Law	1.50	0.50	0.50	2.50										1	
7	Appd. Economics	1.00	0.50	0.50	2.00									0.30"	1	" Surveys & monographs
8	Commerce	0.50	0.25	0.25	1.00										1	
9	Hindi	0.25	0.25		0.50										1	
10	Foreign Lang.	0.15	0.15		0.30											
11	Central Workshop & Instrumentation															
12	& Service Lab.					4.00	1.00	1.00	6.00	0.50	0.25	0.25	1.00			
13	Univ. Lib.	4.00	1.00	1.00	6.00					3.00	1.50	1.50	6.00			
14	Women's Hostel									2.25			2.25			
15	Staff Qrs.									2.00	2.00	1.00	5.00			
16	Publications													0.50		
17	Visiting Profs.													2.00		
18	Guest House									1.50			1.50			
		13.90	5.15	4.75	23.80	13.65	7.40	5.25	26.30	10.75	4.50	3.50	18.75	2.90	13	

The figures indicate UCC Share.

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Appendix III

Cochin University

Staff Strength

S.No.	Department	P	R	L	O	
1.	Physics	1	1	1	-	
2.	Applied Chemistry	2	3	3	-	
3.	Maths & Statistics	2	2	4	-	
4.	Marine Sciences	2	3	3	-	
5.	Microbiology	-	2	2	-	
6.	Law	-	3	2	-	
7.	Applied Economics	1	2	2	-	
8.	Commerce	-	-	-	-	
9.	Hindi	-	1	1	-	
10.	Foreign Languages	-	-	3	-	
11.	Workshop & Instrumentation & Ser. Lab.	-	1*	1*	4**	*Instruction Engineer **Scientist ***Technician
12.	University Library	-	1	1	2	Dy. Lib. Asst. I Tech. Asst.
<b>Total :</b>		<b>8</b>	<b>19</b>	<b>23</b>	<b>6</b>	
	<b>P</b>	<b>8</b>				
	<b>R</b>		<b>19</b>			
	<b>L</b>			<b>23</b>		
	<b>O</b>				<b>6</b>	

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Appendix IV

Staff - Cochin University

P - Professor  
R - Reader  
L - Lecturer  
O - Others

		<u>P O S T S</u>		
		<u>I</u>	<u>II</u>	<u>III</u>
1.	Physics	1P	1L	-
2.	Chemistry	2P 1R	1R 1L	1R 1L
3.	Maths & Stat.	1P 1R	1P 1L	1R 3L
4.	Micro-Biology	1R 1L	1R 1L	-
5.	Law	2R 1L	1R 1L	-
6.	Applied Economics	1P 1R	1R 1L	1L
7.	Commerce	-	-	-
8.	Hindi	1R	1L	-
9.	Foreign Languages	2L	1L	-
10.	Workshop & Instrumentation Laboratory	1R 20	1L 02	
11.	University Library	1 Dy.Lib. 1 Tech. Asstt.	1 Asstt. 1 Tech. Asstt.	-
12.	Marine Sciences	1P 1R 1L	1P 2R	2L
		6P 11R 5L 3-0	2P 6R 10L 3-0	2R 8L L 0
				P - 8 R - 19 L - 23 O - 6



Report of the Visiting Committee to the  
Calicut University (November 1974)

The Calicut University was started in 1968 and is located in one of the educationally and economically backward districts, Malappuram. The Departments of Chemistry, Botany, Zoology and History were started during Third Plan as part of the Kerala University Centre. During the Fourth Plan the Departments of Malayalam, Hindi, English, Physics, Commerce and Technology were created.

The total enrolment for postgraduate courses in the University Departments increased from 70 on 31.12.1968 to 208 on 31.12.1973. The enrolment for Ph.D. was 81 on 31.12.1973.

During 1973-74, there were 84 colleges under the University, 8 Junior Colleges, 23 degree colleges, 15 Postgraduate colleges, 5 teacher training colleges, 3 Engineering colleges, 1 Medical College, 1 Law College and 8 Oriental Literature Colleges, with a total enrolment of 56000, dispersed among the five districts of Cannanore, Calicut, Malappuram, Palghat and Trichur. The enrolment in colleges for B.A., B.Sc. and B.Com. was nearly 20,000 and for M.A., M.Sc. and M.Com. nearly 1,000.

The University has a campus area of 596 acres, 24 kilometres south of Calicut city. Top priority was, therefore, given to the construction of quarters for the teaching and non-teaching staff. 273 quarters have been constructed and occupied and 30 more are under construction. In view of the non-availability of rented buildings, it is necessary to provide more residential accommodation for the staff. Quarters on rent are not available in the vicinity. The staff are being encouraged to construct their own houses near the campus.

Temporary buildings have been put up for the Departments and Administrative offices.

Hostel facilities were initially provided for 57 men and 58 women students. In view of the residential character of the university, construction of hostels to accommodate additional students to the extent of 100 men and 50 women has been taken up. More hostels will be required during the Fifth Plan on a priority basis. The construction of library buildings and the science block will be completed by mid 1975. The building for the School of Languages and the Students' Home are in progress. A Teachers Hostel to accommodate 20 teachers has been constructed and is in use. An indoor gymnasium to accommodate 3000 persons and with facilities for shuttlecock, tennis, basketball and other similar games has been constructed and put to use. A Health Centre for providing care for the staff and the students for the campus has been constructed and is in use.

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- 2 -

A Guest House with accommodation for 22 persons has been constructed. The water supply is maintained from a river bed four miles away. This will have to be augmented during the Fifth Plan period.

A massive programme of inservice training for college teachers will be taken up in which the teachers will be trained in the objectives and methodology of teaching and course content. The University has also undertaken a large scheme of examination reforms. A number of seminars and workshops involving about thousand teachers in various disciplines and many students were conducted. This will be pursued and expanded considerably taking advantage of U.G.C. assistance for the purpose.

Apart from strengthening postgraduate teaching and research, the University would like to have diploma/certificate courses in several vocational subjects. The University has already started a diploma course in Business Administration and another in Office Management and Secretarial Practice. It is also proposed to have more management courses (top and middle management) which will include plantations, personnel relations, industrial relations. The University has decided to establish a curriculum development unit, with a survey and statistical section attached to it to advise the University on new courses.

#### Development Proposals :

Existing Departments :- In general, departments propose to increase enrolment to optimum level commensurate with needs and facilities to offer new specialisations; to start pre-Ph.D., Post M.A., M.Sc. courses; to intensify research and doctoral programme; to initiate inter-disciplinary activities; to keep under review content and structure of courses; to review and improve methods of teaching and learning; to improve evaluation procedures and to carry forward programmes with affiliated colleges in teaching and research.

1. Department of Chemistry :- The Department offers M.Sc. course structured in Semester pattern with specialisation in the second year with provision for internal assessment. The specialisations now offered are (1) Inorganic Chemistry, (2) Organic Chemistry and (3) Physical Chemistry. It is proposed to offer specialisation in three more areas namely (1) Nuclear and Radiation Chemistry, (2) Polymer Chemistry and (3) Analytical Chemistry. The present intake of students is only 12. This will be increased to 36.

The Department is now functioning as three sections - Inorganic Chemistry, Organic Chemistry and Physical Chemistry. Research work now in progress in the Department is mainly in the areas of pure chemistry. The topics of research include "Synthesis and properties of rare earth compounds", "Synthesis of new Organic Reagents and their use as co-ordinating Ligand", "Thermodynamic and Spectroscopic study

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of Hydrogen bonding in Organic Mixtures", "Synthesis of Amino-acids", "Natural Products Chemistry" and "Polymer Chemistry". The Department is housed in a temporary building and the accommodation available is inadequate for carrying out research work on any significant scale. Laboratory accommodation at present permits an intake of only 6 to 8 research students. It is expected that this position will improve with the completion of the departmental buildings under construction.

The present position of teaching staff in the department is as follows :

Professor 1; Readers 3 (one each in Inorganic, Organic and Physical Chemistry section); Lecturer 6 (2 in each of the above sections); Research Assistant 1.

The department proposes to start a one year M.Phil. course.

Recommendations :-

Staff : 1 R, 1 L, 1 P 2 L  
(Natural Products)

Equipment : Rs.3.50 lakhs

Books & Journals : Rs.2.00 lakhs

Fellows : 3

2. Department of Physics : The major activities and programmes of the Department for the Vth Plan period may be listed as :

- I Teaching the M.Sc. semester course and the pre-doctoral one year M.Phil. course.
- II Research in theoretical and experimental nuclear physics.
- III Research in Solid State Physics and materials science with special emphasis on radiation damages in crystalline solids, semi-conductors and thin films.

The research programme in nuclear physics has been under way now. There has been partial support for this project from the Department of Atomic Energy. Theoretical studies have been initiated in Solid State Physics. Experimental work is expected to start soon. The first will be towards studies using the Mossbauer technique.

The present staff strength of the department is 1 Professor, 2 Readers, 4 lecturers.

Enrolment (M.Sc.) 18  
Research 6

The department proposes to start one year M.Phil. course as an essential pre-Ph.D. requirement and as an additional qualification for teachers from Postgraduate colleges. The department also seeks to

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improve M.Sc. courses in Physics/Applied Physics and expand research in theoretical and Experimental Physics, augmenting workshop facilities for servicing, design and fabrication of apparatus needed for teaching and research. The research programmes of the department are :

1. Studies of nuclear radiations and nuclear structure.
2. Studies of positronium annihilation and properties of positronium in materials.
3. Mossbauer studies in magnetic materials.
4. Solid State and radiation damage studies in metals and semiconductors.
5. Elementary particle theory.
6. Theoretical studies of electromagnetic wave propagation and plasma physics.

Recommendations :

Staff : 1R, 1P, 2L  
Equipment : Rs.6.00 lakhs  
Books and Journals : 4 lakhs  
Fellows : 3  
Radiation Laboratory (Building) Rs.1.5 lakhs UGC share

3. Department of Zoology : The annual intake of students is 8 at present for the M.Sc. course. It is proposed to increase this to 12 during the Vth Plan period.

The number of doctoral students at present working in the Department is 8. With the additional facilities that will be available during the Vth Plan period, it is proposed to raise this number to 16.

The Department is taking steps to start a post-M.Sc. course (M.Phil.) of one year duration, as a pre-Ph.D. programme and for teacher improvement.

The current M.Sc. syllabus is being revised and made up-to-date. At present only Entomology is offered in this department as a specialisation. The revised syllabus includes 2 additional specialisations viz. Cell Biology and Reproductive Biology.

The revised syllabus also includes the study of inter-disciplinary areas like Biochemistry, Biophysics and Biometry. During the Vth Plan period, research in all these areas will be intensified. Great importance will be given to further developing the research in environmental conservation and Wildlife, with special reference to projects of regional relevance.

The present staff strength of the Department is 1 Professor, 1 Reader, 5 Lecturers and 2 Research Assistants.

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Recommendations :

Staff : 1 P (Reproductive Physiology)  
1 L, 1 R, 1 E  
Equipment : Rs.4.00 lakhs  
Books and Journals : Rs.2.50 lakhs  
Fellows : 2

4. Department of Botany : Currently it has facilities to teach 8 M.Sc. students in each year of the 2 year course. During the Vth Plan period it is proposed to increase the intake of M.Sc. students to 12 per batch; the present enrolment of 8 for Ph.D. will also be increased. Facilities for specialisation in Plant Taxonomy (including economic botany, ethnobotany, palynology, etc.); experimental morphology (including morphogenesis and tissue culture experimental embryology, wood anatomy) and Plant Physiology (including physiology of growth) will also be provided.

In order to bridge the gap between the standard attained at Master's degree level and that required to undertake research work leading to a doctorate degree and to provide an advanced level of knowledge to teachers, especially Postgraduate teachers in colleges, it is proposed to start a Post-M.Sc.(M.Phil.) course in the department offering 3 specialisations mentioned above viz. Plant taxonomy, Experimental Morphology and Plant Physiology.

The course will provide advanced training in selected subjects and also initiate the students in research methodology and techniques in the branches of specialisation, keeping in view the vast floristic wealth and potential of Kerala and especially of the Calicut University area.

It is proposed to initiate research work and train Ph.D. students in those branches of Botany which have a special bearing on the development of the Calicut University area, (Northern Kerala).

In addition, it is proposed to aid the affiliated colleges in the conduct of the postgraduate training programme in Botany by providing short term visiting professors, readers and lecturers so as to improve the standard of Postgraduate teaching and to make good the deficiencies due to lack of suitably qualified staff in special areas of study through cooperative teaching. It is also proposed that these visiting teachers from the University Department will help in fostering research work in the postgraduate colleges.

The present staff strength of the Department is 1 Professor, 2 Readers and 6 Lecturers.

The economically oriented research programmes are :

- (1) Control and Eradication of the Aquatic Weed *Salvinia* in Kerala;
- (2) Improvement of Cashew, Nutmeg, Gloves, Vanilla and Pepper Crops of

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Malabar; (3) Studies on Seed-borne Diseases of pulses; (4) Genetical Studies on Rice; (5) Study of Flora of Kerala; (6) Taxonomy and Morphology of the Ferns of India :

Proposed Areas : (a) Wood anatomy, (b) Tissue Culture, (c) Ethno-botanical studies on the tribals of Malabar with a view to exploiting the medicinal plants and food value used by the tribals :

Recommendations :

Staff : 1R, 1L, 1P, 2L  
Equipment : Rs.2.50 lakhs  
Books and Journals : Rs.2.50 lakhs  
Green House and Botanical Garden : Rs.1.50 lakhs  
Fellows : 2

5. Unit of Life Sciences :

It is necessary to cut across the conventional barriers in the biological and biomedical fields of study and this can be accomplished by a Unit of Life Sciences. It will make use of the facilities of the existing departments of Botany and Zoology and those available in the Medical College, where the facilities are fairly well developed. The Department of Anatomy, Biochemistry, Microbiology and Physiology will participate in this programme. The University Departments of Psychology will also collaborate. With this interdisciplinary approach, research and courses of studies will be developed in various areas of biological and biomedical importances and in environmental sciences. In course of time, the Unit may develop as an Institute with considerable autonomy in its working and flexibility in its staffing and programmes depending on the needs and availability of facilities.

A special part of the Unit will be Biophysics and Biomedical Engineering in collaboration with the Regional Engineering College.

A major problem to which the University may address itself is the impact of environment. Modifications in the environment are taking place constantly and their impact on man and other living things has to be studied in depth.

The committee welcomes this proposal but is of the view that for the time being this may be part of the School of Biological Sciences in close collaboration with the Medical College and the Regional Engineering College in the neighbourhood.

Recommendations :

Staff : 3 R (Biochemistry, Microbiology, Physiology)  
Equipment : Rs.2.00 lakhs  
Books and Journals : Rs.1.50 lakhs.

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6. Department of History :

The department has at present only a staff of two Readers, three lecturers and one Epigraphist.

The department plans to develop study and research in ancient, medieval and modern history with special emphasis on research related to South India in general and Kerala in particular.

Area studies in West Asia would also get priority as Kerala has a continuous tradition of contact with the region in the fields of religion, trade and culture. This may be examined by the Area Studies Committee of UGC.

It is also proposed to have an M.Phil. course of one year's duration after M.A. in which teaching, research methodology and research will be included.

The research work of the department can progress further only with some provision for field work, survey and excavation in archaeology, the collection of old manuscripts and records which are available in plenty in this region, and the building up of a good reference library in history with sufficient number of back volumes of journals and micro-films, copies of records etc. Facilities for making photos and microfilms, records and inscriptions and a jeep for archaeological exploration are essential for promotion of research at the centre.

Enrolment (M.A.) 30  
Research : 10

The department has a fairly strong team, doing and guiding research in two major areas; ancient India with special reference to Kerala and Modern India with special emphasis on freedom movement. The Department has to be strengthened in medieval history for which one Reader is recommended. The department has a Museum which collects archaeological relics mostly from Malabar area. At present it has a collection of about 230 pre-historic relics including megalithic pottery, neolithic and mesolithic tools. There are ten big granite icons belonging to 9th-14th centuries A.D., two stone inscriptions in Vetteluthus, 13 copper plate documents, about fifty terracotta figurines and some materials of tribal culture in Wyrad. In addition, there are about 25 coins, mostly belonging to the period of Tippu Sultan and East India Company, but some are unidentified.

Recommendations :

Staff : 1P, 1R, 1L (one of the senior positions may be in medieval history).  
Books and Journals : Rs.0.75 lakhs  
Museum : Rs.0.25 lakhs  
Fellows : 2.

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7. Department of Commerce :

The Department of Commerce was started during the IV Plan period. The Department now takes students for the Diploma course in Business Administration and the Diploma course in Office Management and Secretarial Practice. The Department conducts M.Com. course and offers facilities for doctoral studies. The annual intake of students for M.Com. course during the Vth Plan period will be 15. It is also proposed to start courses in research methodology, and further courses for Office Management and Secretarial Practice and Business Administration.

The present staff of the Department consists of 1 Professor, 1 Reader and 2 Lecturers.

The department has a number of research programmes which will be of use for the economy of the State.

The following are the major schemes :

Pattern of Employment, Income, Saving and Investment of the People of Malabar.

Marketing and Financial problems of Plantation Industry in Kerala.

Role and significance of Agro-Industries in the Economy of Kerala.

Enrolment 59  
Research 4

Recommendations :

Staff : 2R, 2L  
Books and Journals : Rs.1.00 lakhs  
Fellowship : 1

8. Department of Hindi :

The University Department of Hindi is the only centre now offering Postgraduate studies and research in Hindi in this University area. The intake of the students for M.A. course and for research will have to be considerably increased in the Department during the Vth Plan period. The progressive use of Hindi as the official language of the nation need special job-oriented courses to be offered by the Department of Hindi. Present enrolment for M.A. is 26.

The department of Hindi has already undertaken substantial changes in the conventional M.A. course in Hindi literature offered elsewhere. Specialised papers will be offered in the existing M.A. courses in order to make it attractive from the point of view of

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job-orientation and specialisation. The Department has planned to conduct M.Phil. course. The Department will specially pay attention to comparative studies under the "School of Languages Programme" of the University. The Department expects a large number of research scholars.

Some Diploma Courses, such as Postgraduate Diploma in Hindi, Diploma course in translation and Secretarial practice and Diploma in Hindi journalism are intended to be offered by the Department. Taking into consideration the requirements and the demands of contemporary society, such courses will prove to be very useful and job-oriented.

The present strength of the Department is 1 Professor, 2 Lecturers, and 1 Research Assistants.

Major areas of research :

- (a) Comparative Study of Hindi and Malayalam Literature
- (b) Hindi literature of non-Hindi speaking area with particular reference to Dakhni.

New Courses suggested : Diploma in translation and official Hindi (part-time one year course).

Recommendations :

Staff : 2R, 2L

Books and Journals : Rs.0.50 lakhs

Fellowship : 1

9. Department of Malayalam :

The Department of Malayalam was started during IVth Plan period. It has an annual intake of 15 students, for the M.A. course. There are at present 6 doctoral candidates. The Department proposes a number of research programmes which will include the collection and critical study of the folk songs of Malabar area, a toponomical survey of Malabar area and also translation of Sanskrit texts into Malayalam. The department also proposes to start an M.Phil. course.

The present strength of the staff is 1 Professor and 2 Lecturers.

Important areas of research : (1) Folklore of Malabar, their collection and critical study; (2) Indian Poetics-Translation of Sanskrit texts on Poetics into Malayalam with critical introduction and exhaustive explanatory notes; (3) Historical grammar of Malayalam Language; (4) Study of Malayalam Novels, (5) Collection of Manuscripts.

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It is important that folk lore of the area be preserved, as it will die out fast as regards many dialects and folk songs, unless collected in libraries and encouraged. A sound-recording apparatus is essential for this purpose, and with ancillaries etc., it may cost about Rs.15,000/-. This may be provided.

There ought to be greater attention paid to the preservation of palm-leaf manuscripts with this department, as the national heritage embodied in them would be irreplaceable if they were to deteriorate. The General Library should have an airconditioned room for this purpose, equipped with materials needed for treating documents with chemical preservatives.

Recommendations :

Staff : 2R, 3L

Books and Journals : Rs.0.50 lakhs

Air-conditioning of the manuscripts Section Rs.30,000/-  
(sound recording apparatus Rs.15,000/-)

Fellows : 2

10. Department of English :

The Department of English was started during the IV Plan period. It concentrated attention on teacher improvement programmes and conducted a post-graduate diploma course in English for the benefit of teachers in the affiliated colleges. The department now proposes to start a postgraduate degree course in English which will be different in content from that offered in the affiliated colleges. This course will be more language-oriented and will also concentrate on methodology in teaching. It is also proposed to assist the affiliated colleges with a view to improving the quality of teaching.

The present staff strength of the Department is 2 Readers and 2 Lecturers.

It is also proposed to start an M.Phil. course as a pre-Ph.D. and faculty improvement programme. The Department, however, conducts intensive refresher courses in Linguistics, phonetics, methods of teaching English and contemporary literature with emphasis on practical aspects of pedagogy. 36 college teachers participated in the programme.

The department is also undertaking training programmes in evaluation techniques for college teachers. This programme will be stepped up. A question bank workshop was also held in all subjects at the pre-degree level.

At present 6 research scholars have registered for Ph.D.

Recommendations :

Staff : 1P, 1R, 1L

Books and Journals : Rs.1.00 lakhs

Fellowships : 1

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11. Department of Arabic :

The first M.A. (Previous) classes have started with 7 students during this year. 6 students have registered for Ph.D. There is one Reader and one Lecturer in the Department.

The Department proposes a one-year course after B.A. with Arabic (Main) in translation and interpretation and a diploma course in commercial Arabic as well as the diploma in modern Arabic in view of the increasing trade contacts with West Asia. The Department will also collect, compile and publish the scattered Arabic poems of poets of Malabar. Arabic manuscripts are being collected. Books dealing with Indo-Arab, historical and Cultural relations will also be published.

An M.Phil. course will also be started.

Recommendations : 1L  
Books and Journals : Rs.0.50 lakhs  
Fellowships : 1

12. New Departments :

Mathematics :- A Department of Mathematics was approved during IV Plan but could not be started for want of suitable staff as well as inadequacy of allocations. There is at present no institution in Kerala which offers advanced instruction or research programme in applied mathematics. This is a serious defect and will stand in the way of research and development in Science, Engineering and Technology. It is, therefore, essential to organise study and research at Postgraduate level in pure and applied mathematics. The department will closely cooperate with the Engineering and other affiliated colleges.

This department should have a fairly good statistics unit, which would also serve all the departments under the University. It can later develop into a fullfledged department.

The department will also have a section on systems analysis.

Recommendations :

Staff : 1P, 2R, 3L  
Equipment : Rs.0.50 lakhs  
Books and Journals : Rs.2.50 lakhs  
Fellowships : 2

School of Fine Arts and Drama :- Kerala has an abundance of histrionic talent and a very progressive school of Literature and Drama. There are no facilities anywhere in the State for modern professional training in the Theatrical arts. The University's Faculty of Fine Arts has formulated a course in Theatrical Arts which, however, cannot be offered by any of the affiliated colleges. Adequate facilities

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for such a course can only be provided by the University. It is, therefore, proposed to establish a School of Drama which can serve the entire State to modernise and improve all aspects of theatrical arts.

The University proposes to establish the Centre at Trichur and has got 16 acres of land and a building donated by the family of late Dr. John Mathai.

From all points of view, Trichur is the fittest location for this purpose. In the same building will be housed the proposed University Centre in other subjects, designated as Academic Centre, which will have a nucleus of staff at the Professor's and Reader's level to coordinate postgraduate teaching in Trichur town and district.

The Visiting Committee and the University are of the view, taking into account the special characteristics of the School of Fine Arts and Drama, qualifications prescribed should be suitable and flexible.

Recommendations :

Staff : 6 Artists (one/<sup>in</sup>professors' scale, 2 in reader's scale, 3 lecturer's scale. These do not fall into the regular categories of university hierarchy)  
1 Fellowship.

Department of Economics :- With modern developments in planning, resources mobilisation, management etc., there is need for a department of economics, with emphasis on political economy and macro-economics. It is noted that the University wishes to stress econometrics in the economics courses. However, important may be the study of this branch of the subject, it is felt that the trend of mathematicisation of economics must not be at the expense of a study of the issues of economics. Many Universities introducing econometrics turn out products who are good computers but do not have feel of policy-making. Our planning is not going wrong because of lack of computational assistants, but because policies and the analysis on which they are based are not clearly understood by the policy-makers. It is important to know that the Calicut area gets a small percentage of industrial investment of the country and not much mathematics is required to calculate the approximate quantum. It is more important, however, to understand the political-economic forces which lead to this unbalanced regional structure of investments. Hence, Political Economy should be the main emphasis of the School of Economics in this part of the country which has been deprived historically of its due share of attainment of potential industrial growth. It is in this field which pertains to Economics of Relevance at this Regional University. Once such a school is established here, students from all parts of the country, especially other areas with similar problems, would like to benefit from the type of instruction and the orientation imparted at this school.

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Apart from its own programme of teaching and research it will be of great use in helping other departments like Commerce, Administration and Management. It is proposed that the emphasis should at present be on Macroeconomics and political economy and Statistics. Later the Department may specialise in other fields like labour economics, banking, public finance and economic development. The University will try to obtain the collaboration of the Centre for Developmental Studies, and the Department of Applied Economics at Cochin University and the Survey Research Centre at Kerala University.

The Department will conduct M.A. courses, M.Phil. courses, research related to development of the region in close cooperation with the Department of Commerce and Management.

Recommendations : Staff 1P, 2R, 4L  
Books and Journals : Rs.1.50 lakhs  
Fellowship : 1

Department of Philosophy :- With the phenomenal advances of Science and Technology, human values have tended to be blurred. To restore the balance and to recapture attention to man himself it seems necessary to develop philosophical studies. The University has a Faculty of Philosophy and Philosophy is taught in one of the affiliated colleges upto the degree level. It is necessary to establish a Department of Philosophy in the University to offer courses of study and conduct research in certain selected fields. Particular emphasis will be laid on the thinking of contemporary philosophy and its philosophical interpretation of history and the sciences. M.A. course in Philosophy will be started.

Recommendations :

Staff : 1P, 1R, 2L  
Books and Journals : Rs.1.00 lakh  
Fellowship : 1.

Department of Journalism :- With the high percentage of reading public in Kerala, it is necessary to have large scale facilities for training and research in Journalism. But this is not so and few facilities exist. The department may offer postgraduate diploma courses of study and conduct research into the organisation of newspapers, periodicals, magazines etc. It will study the reporting of public activities, editing and editorial writing, concentrate on science writing for the general public and literature for children and neoliterates. Mass Communication research will also be carried out. The proposal to start a postgraduate degree either as B.J. or M.A. in Journalism at this stage is not recommended.

Recommendations :

Staff : 1R, 1L  
Books and Journals : Rs.0.30 lakhs.

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Department of Psychology :- A strong Psychology department has to be built up in the University. It will give courses of study and research on psychological topics, theoretical and applied. The department will help in organisation of guidance and counselling of students and conduct course for college teachers and others in this area in collaboration with the Department of Education. The department will also help in the study of labour and industrial problems and help the other departments. M.A. course in Psychology will be started :

Recommendations : Staff : 1P, 1R, 2L  
Books and Journals : Rs.1.00 lakhs  
Fellowship : 1.

University Library: (I) The University library is still in its growing stage. A great effort has to be made to add to the books, periodicals and back volumes. It is proposed that during the Vth Plan period there will be extension services, for the affiliated colleges and other institutions engaged in research and cooperating in the teaching programmes. The University proposes to have a micro-film library. It is also proposed to have duplicating services for the benefit of the teaching staff and research students :

Recommendations :

Staff : 2 Asstt. Librarian [REDACTED]  
1 Deputy Librarian [REDACTED]  
Books and Journals : Rs.10.00 lakhs

Department of Education :- Assistance to the Department of Education outside fourth plan allocation upto the end of fifth plan was approved in November, 1972 but since no allocations are made available outside the fifth plan the requirements of the department are to be included within the overall fifth plan allocation to the universities :

Recommendations :

Staff : 1P, 3R, 4L (1P, 1R, 1L are in position)  
Equipment : Rs.0.50 lakhs  
Buildings estimated at Rs.3.00 lakhs (UGC share Rs.1.50 lakhs 50%)  
Fellowship : 1  
Books & Journals Rs. 0.50 lakhs.

University Library: (II) Buildings : The second phase of library is estimated at Rs.6.00 lakhs of which UGC share comes to Rs.3.00 lakhs. For the School of Languages and Social Sciences Block estimated at Rs.10.00 lakhs, Rs.5.00 lakhs may be provided as UGC share.

Staff Quarters and Teachers Hostels :- Estimates at Rs.10.00 lakhs for staff quarters and teachers hostels (UGC's share Rs.5.00 lakhs @ 50%). One hostel for 50 men estimated at Rs.3.00 lakhs, UGC share comes to Rs.1.50 lakhs and one hostel for 50 women estimates at Rs.3.00 lakhs with UGC assistance of Rs.2.25 lakhs are also recommended.

Central Workshop and Instrumentation and Services Laboratory :

A building is required estimated at Rs.1.50 lakhs (100% UGC share). Equipment and tools for the Workshop and Instrumentation Laboratory worth Rs.10.00 lakhs (6 + 2 + 2) may be provided. The staff requirements in this regard on 100% basis are : 1 (Instrumentation Engineer - Reader's scale), one Junior Engineer/Scientist (Lecturer's scale) and four Technicians (100% UGC Share). All costly and sophisticated instruments of common use are also to be shifted from the departments to the Centre.

Visiting Professors :- Under miscellaneous schemes, it is necessary to provide for visiting professors/experts from other universities/institutions to enrich the programmes for which Rs.1.00 lakhs is recommended.

Faculty Improvement Programme :- In view of the urgency of upgrading the competence of college teachers particularly from the postgraduate colleges, to start with, a grant of Rs.2.00 lakhs is recommended, under the faculty improvement programme. The university may avail of the materials developed by various University Leadership Project Centres in the country for adoption and adaptation and also initiate similar programmes in other disciplines. Close cooperation among the universities in the State and the region will be useful.

A provision of Rs.1.00 lakh is also recommended towards publication of high quality research work, monographs and curricula materials.

The UGC has already approved construction of Radiation Research Laboratory located in the Department of Physics but to be used as a common facility by other user departments estimated at Rs.3.00 lakhs of which UGC share is Rs.1.50 lakhs.

Fellowships :- With a view to strengthening research in the university departments and to provide for a steady supply of doctorates, the committee is of the view that it is necessary to provide research fellowships during the fifth plan, for which a provision of Rs.9.60 lakhs (upto 20% senior fellowships) is made. Hardly 5% of the teachers of the postgraduate classes in the colleges have research qualifications which is responsible for low standards of products from these colleges.

Sd/-

1. Prof. N.V. Thirtha
2. Prof. E.S. Rajgopal
3. Prof. N.R. Deshpande
4. Prof. Agasthialingam
5. Prof. Gautam Mathur
6. Dr. N.K. Panikkar
7. Shri I.C. Menon

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Annexure

Calicut University

Summary showing the position of spill over + Basic + new allocations on the basis of Fifth Plan Visiting Committee.

	<u>Rs. in lakhs</u>		<u>Rs. in lakhs</u>
(A) <u>SPILL OVER</u>			
(i) Buildings	13.70 )		
(ii) Staff	0.73 ) Appendix I		
	<u>14.43</u>		14.43
(B) <u>BASIC</u>			
(i) Books	3.00		
(ii) Equipment	5.00		
	<u>8.00</u>		8.00
(C) <u>NEW ALLOCATIONS (UGC SHARE)</u>			
(i) Books	33.55 )		
(ii) Equipment	29.00 )		
(iii) Building	22.75 ) Appendix II		
(iv) Other Misc.	4.70 )		
(v) Fellowships	9.60 )		
(vi) Recurring	28.00 Appendix III		
	<u>127.60</u>		127.60
GRAND TOTAL (A + B + C)			<u>150.03</u>

(ROUNDED Rs.150 lakhs)



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Appendix I

SPILL OVER SCHEMES - CALICUT UNIVERSITY

A. BUILDINGS

1.	Science Block-Phase I	Rs. 6,00,000/-
2.	Library Building	Rs. 1,40,000/-
3.	Men's Hostel (Old)	Rs. 1,10,000/-
4.	Men's Hostel (Add)	Rs. 40,000/-
5.	Women's Hostel (Old)	Rs. 1,75,000/-
6.	Women's Hostel (Addl)	Rs. 75,000/-
7.	Staff quarters	Rs. 1,44,700/-
8.	Teachers' Hostel	Rs. 7,871/-
9.	Addl. Guest House	Rs. 10,236/-
10.	Health Centre	Rs. 5,000/-
11.	Living Room Furniture	Rs. 62,500/-

Total :

Rs. 13,70,307/-

B. STAFF

1.	Humanities	Rs. 34,450.02
2.	Central Library	Rs. 1,722.79
3.	Science	Rs. 36,950.86
		<u>Rs. 73,123.67</u>

GRAND TOTAL (A + B) Rs.14,43,430.67

(Grants sanctioned during IV Plan Rs.79.28 lakhs)

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CALICUT UNIVERSITY

(Rs. in lakhs) UGC's share

S. N.	Departments	Books				Equipment				Buildings				Others	Fellow-ships	Remarks
		I	II	III	Total	I	II	III	Total	I	II	III	Total			
1.	Chemistry	1.00	0.50	0.50	2.00	1.50	1.00	1.00	3.50						3	
2.	Physics	2.00	1.00	1.00	4.00	3.00	1.50	1.50	6.00	1.50			1.50		3	Radiation Lab.
3.	Zoology	1.50	0.50	0.50	2.50	2.00	1.00	1.00	4.00						2	
4.	Botany	1.50	0.50	0.50	2.50	1.50	0.50	0.50	2.50	1.00	0.50		2.00*		2	*Green House and Botanical Garden
5.	Unit of Life Scs.	0.50	0.50	0.50	1.50	1.00	0.50	0.50	2.00				1.00			
6.	History	0.25	0.25	0.25	0.75									0.25*	2	*Museum
7.	Commerce	0.50	0.25	0.25	1.00										1	
8.	Hindi	0.20	0.20	0.10	0.50										1	
9.	Malayalam	0.20	0.20	0.10	0.50									0.30*) 0.15)	2	* Airconditioning of the Manuscripts Section and
10.	English	0.50	0.25	0.25	1.00										1	Rs.15,000 for sound recording apparatus.
11.	Arabic	0.20	0.20	0.10	0.50										1	
12.	Mathematics	1.00	0.75	0.75	2.50	0.20	0.20	0.10	0.50						2	
13.	Fine Arts & Drama	-	-	-	-	-	-	-	-						1	
14.	Economics	0.50	0.50	0.50	1.50										1	
15.	Philosophy	0.50	0.25	0.25	1.00										1	
16.	Journalism	0.10	0.10	0.10	0.30											
17.	Psychology	0.50	0.25	0.25	1.00										1	
18.	Univ. Library	5.00	2.50	2.50	10.00					1.00	1.00	1.00	3.00			
19.	Education	0.25	0.25	-	0.50	0.30	0.20	-	0.50		1.00	0.50	1.50		1	
20.	School of Lang. & Social Sciences	-	-	-	-	-	-	-	-	2.00	1.50	1.50	5.00			
21.	Staff quarters	-	-	-	-	21.00	-	-	-	2.00	1.50	1.50	5.00			
22.	Hostel (Men)	-	-	-	-	20.00	-	-	-	-	1.25	0.25	1.50			
23.	Hostel (Women)	-	-	-	-	30.00	-	-	-	1.00	0.75	0.50	2.25			
24.	Central Workshop & Instt. Lab.	-	-	-	-	5.00	3.00	2.00	10.00	1.00	0.25	0.25	1.50			
25.	Visiting Profs.	-	-	-	-	-	-	-	-	-	-	-	-	1.00		
26.	F.I.P.	-	-	-	-	-	-	-	-	-	-	-	-	2.00		
27.	Publication	-	-	-	-	-	-	-	-	-	-	-	-	1.00		
		16.20	8.95	8.40	33.55	14.50	7.90	6.60	29.00	9.50	7.75	5.50	22.75	4.70	25	

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Appendix-III

Calicut University

S.No.	Department	S T A F F			
		P	R	L	Others
1.	Chemistry	1	1	3	-
2.	Physics	1	1	2	-
3.	Zoology	1	1	2	-
4.	Botany	1	1	3	-
5.	Unit of Life sciences	-	3	-	-
6.	History	1	1	1	-
7.	Commerce	-	2	2	-
8.	Hindi	-	2	2	-
9.	Malayalam	-	2	3	-
10.	English	1	1	1	-
11.	Arabic	-	2	1	-
12.	Mathematics	1	2	3	-
13.	Fine Arts and Drama.	1*	2*	3*	(* Artists)
14.	Economics	1	2	4	-
15.	Philosophy	1	1	2	-
16.	Journalism	-	1	1	-
17.	Psychology	1	1	2	-
18.	Library	-	-	-	3 (1 Deputy Lib. 2 Asstt. Lib.)
19.	Education	1	3	4	-
20.	Central Workshop	-	-	-	-
	Instrumentation and Services Lab.	-	1	1	4
			(Instt. Engg.)	(Jr. Engg.)	(Tech.) Scientists
		12	28	40	7

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Appendix-IV

Calicut University

S.No.	Department	Staff		
		I	II	III
1.	Chemistry	1L	1P	2L
2.	Physics	1R	1P	2L
3.	Zoology	1P	1R	1L
4.	Botany	1L		
		1R	1P	2L
5.	Unit of Life Sciences	1R	2R	-
6.	History	1P	1R	1L
7.	Commerce	1R	2L	1R
8.	Hindi	1R	1R	1L
9.	Malayalam	1L		
		1R	1R	1L
10.	English	1L	1L	
		1P	1R	
11.	Arabic	1L	-	-
12.	Mathematics	1P	1R	1L
		1R	2L	
13.	Fine Arts & Drama	1P	1R	2L
		1R	1L	
14.	Economics	1P	1R	1L
		1R	1L	
		2L		
15.	Philosophy	1P	1R	-
		1L	1L	
16.	Journalism	1R	1L	-
17.	Psychology	1P	1R	-
		1L	1L	
18.	Library	1(O)	1(O) @	1(O) Asstt. Lib.
19.	Education		2R	2L+1P @Deputy Lib.
		1R	1L	
20.	Instrumentation and Services Lab.	1L		
		1R	1L	-
		2(O)*	2(O)*	P-1 *Technicians.
		P-8	P-3	R-1 P-12
		R-13	R-14	L-16 R-23
		L-13	E-12	L-40
		Others - 3	Others-3	Others-1 Others-7
		13.00	10.00	5.00

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PART IV

Report of the Visiting Committee  
to Kerala University (November, 1974)  
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The UGC Committee visited Kerala University from 25-28 November, 1975 and held discussions with the University authorities in regard to development of the University during the Fifth plan.

Established in 1937, Kerala University is situated in two Campuses, one in the city of Trivandrum and the other at Karyavattom, 8 miles off. During the IV Plan period the University shifted 15 departments from the city to the Karyavattom Campus. With further development of the Karyavattom Campus, during the V Plan, it is expected that both the Administrative and Academic wings of the University will function from here, which is necessary for ensuring a corporate life in the Campus.

During 1973-74, there were 103 colleges affiliated to the University with a total enrolment of 1,15,775 in the districts of Trivandrum, Quilon, Alleppey, Idikki, Kottayam and Ernakulam. Of these 103 colleges, 58 are first grade colleges (Arts, Science and Oriental), 20 Junior colleges, 3 Law Colleges, 14 Teacher Training Colleges, 3 Engineering Colleges, 3 Medical Colleges and 2 Ayurvedic colleges. There are 7 Government colleges, 6 of them having put graduate courses. Out of the 51 private colleges (arts, science and oriental) 20 have postgraduate courses. The total enrolment in the 26 Post-graduate colleges was 3718 in 1973-74.

The University has 25 departments in the faculties of Arts, Social Sciences and Sciences excluding the departments of Publications and the University library. Seven departments are in Social Sciences, 9 in Arts, 9 in Sciences. The enrolment in the University departments during 1973-74 was 677; 419 men and 258 women.

Expansion of existing Departments :-

(1) Department of Mathematics :- The department provides instruction for M.Sc. course and carries out research annual intake is 20 for M.Sc. There are 5 research students working for Ph.D., three full time and two-part time.

Staff position is one Professor (vacant), two Readers and four lecturers.

The department proposes to carry out inter-disciplinary work and to establish relationship with Vikram Sarabhai Space Centre nearby.

Recommendations :-  
Staff : 1 R 1 P  
Books and Journals : Rs. 1.00 lakh  
Fellowships : 2

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2. Department of Statistics :- The Department offers two M.Sc. courses, one in Statistics and the other in Demography. The annual intake is 15 for M.Sc. (Stat) and five for M.Sc. Demography. The latter course is not being conducted this year. The department has finalised the programme of M.Phil. (one year) in Demography. The department also acts as a service Agency to five departments. Fifteen scholars are enrolled for research, six full time and nine part time. The major areas of research are (1) Statistics, Multivarian, Analysis, Stochastic, Process, Statistical inference, sampling theory, operations research, Probability models, Mathematical Economics, Industrial Statistics, Demography, Population Models, fertility, Population Dynamics with special reference to family planning, residential mobility.

The staff strength is two Professors, three Readers, five Research Officers.

The Committee recommends, Rs. 2 lakhs for equipment which includes IBM data processing machines (Card puncher verifier sorter and accounting unit), one electronics desk, calculator and one duplicating machine. This will be a common facility for all the University Departments :

Recommendations : Staff : 1 R 1 L  
Books and Journals Rs. 1.00 lakh  
Equipment : Rs. 2.00 lakhs  
Fellowship : 2

3 Department of Physics :- The department of Physics was started in the university during the fourth plan period. It is temporarily located in the Botany Department. A building is of an urgent necessity. It has M.Sc. course in Physics with an intake of 10 students. The present staff position is one professor, one reader and three lecturers.

The department has started during 1974 a post-M.Sc. diploma course in Space Physics with UGC assistance. The sanctioned post of one professor, one reader, one lecturer are vacant. These posts are being filled up. The department will start a post M.Sc. Diploma in Applied Electronics from next year. A similar course in material science and weather physics is also proposed. These courses will be run in collaboration with the Vikram Sarabhai Space Centre and the Kerala State Electronics Corporation and related industries. The major areas of research departments are Space Physics, Plasma Physics, Theoretical and Solid State Physics, Molecular Vibration and Crystal Growth and X-ray diffraction. There are 10 research scholars in the Department. The Department proposes to undertake co-operative teaching in M.Sc. classes in colleges, and also conduct M.Phil programmes.

Recommendations : Staff : 1 P, 1R, 1L, 2R, 3L  
Equipment : Rs. 8 lakhs  
Books and Journals : Rs. 2.00 lakhs  
Fellowships : 3

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4. Department of Chemistry :- The Department was offering M.Sc. course in Analytical Chemistry but it has now been stopped. It is proposed to start M.Phil course from next year. The Department conducts research in Inorganic, Organic and Physical Chemistry. 23 research scholars are registered in the departments, 20 full-time and 3 part-time. The major areas of research are (1) Analytical Chemistry (2) Chemistry of Coordination Compounds, (3) Hetero cyclic compounds, (4) Organic Chemistry, (5) Physical Organic Chemistry, (6) Chemistry of Metals, (7) Chemistry of Plants Products.

The staff strength is 2 Professors, 3 Readers, 5 Lecturers (one vacant). The committee recommends that the University start M.Sc. course from next year in Mineral Chemistry which is of relevance to the State. The department should organise and take part in co-operative teaching among PG colleges in the neighbourhood, and also undertake faculty improvement programmes. The department may be shifted to Karyavattom, as early as possible, by a rational distribution of Space in the buildings at the Campus. However, a permanent building is required for Chemistry, Physics and Biochemistry departments.

Recommendations :

- Staff : 1R 2L
- Books and Journals : Rs. 2.00 lakhs
- Equipment : Rs. 6.00 lakhs
- Fellowships : 3

5. Department of Biochemistry : Biochemistry was started as a Division of the Department of Chemistry in 1961 and this has become an independent department in 1970 when an M.Sc. course in Biochemistry was started. Annual intake is 7. This will be increased to 15, when the department shifts to Karyavattom in the near future. There are 20 research scholars 17 fulltime and 3 part-time. The major areas of research are :

1. Atherosclerosis and diabetes
2. Bio-Chemistry of scorpion
3. Enzyme Bio-chemistry and
4. Bio-Chemistry of Ascaris Lumbricoids.

The department may have inter-departmental cooperation in teaching and research with the Biology Department.

In the new syllabus for B.Sc, Biochemistry is a subsidiary for which teachers are necessary.

The present staff strength is 1 Professor, 1 Reader and 3 Lecturers.

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Recommendations : Staff : 1R 1P 2L  
Books and Journals : Rs. 2.00 lakhs -  
Equipment : Rs. 4 lakhs  
Fellowships : 1  
A.C. Unit Rs. 0.30

6. Department of Geology :- The department offers M.Sc. courses in Geology and also conducts research. The annual intake for M.Sc. is six and there are seven research scholars (5 full-time and 2 part-time). The present staff strength is 1 Professor, 1 Reader, 4 Lecturers and 1 Research Officer. The department desires to undertake extensive studies on the Beach sands of Kerala with particular reference to the economic minerals like Monazite, Ilmenite, Zircon, Rutile, Sillimanite etc. The Committee is of the view that this Department should cooperate with the Chemistry Department for M.Sc. course in Mineral Chemistry and also link up with Marine Geology Division of Cochin University. The major areas of research proposed are Petrology, Structural Geology, Economic Geology and Sedimentology. Geology is of immense importance at the present juncture in the economic development of the State.

Recommendations :-  
Staff : 1R, 1P, 1R  
Books : Rs. 1.00 lakhs  
Equipment : Rs. 2.00 lakhs  
Vehicle : Rs. 0.75 lakhs  
Fellowship : 1

7. Department of Botany : This Department was started in 1959. The Department specialises in Plant Genetics, Cytology and Plant breeding and offers M.Sc. course in Genetics and Plant breeding. Department has three sections (1) teaching and research section (2) Induced Mutation section (3) Botanical garden and Experimental station, the experimental farm has 25 acres. A wide collection of germ plasm of economically important plants and their wild relations including inker crops, cereals, millets, pulses, fruit plants, ornamental plants, oil yielding plants, medicinal plants is maintained for providing reservoir of crop germ plasm. A spacious green house is attached to the Department sheltering several species of plants of botanical importance. This includes a collection of over 200 species of tropical ferns, 165 species of orchids, ornamental plants and others belonging to various plant groups.

The Department possesses 1250 curie cobalt 60 gamma source unit supplied free by the Department of Atomic Energy. This facilitates Induced Mutation Research on a variety of commercially important plants. There are 24 research scholars 13 full-time and 11 part-time working in the Department. Present intake for M.Sc. is 15.

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Steps have been taken to establish a Hybrid seed garden in the Departmental farm. Guidance on techniques of hybrid seed production will be taken up by this Unit.

The department proposes to start M.Phil course and also conduct Teacher Improvement Programme for College Teachers besides training biology graduates through short-term vocational courses of economic importance to the State.

The present staff strength is 2 Professors, 3 Readers and 7 Lecturers :

- Recommendations :
- Staff : 1R (Plant Physiology) 1 L
  - Books and Journals : Rs. 1.00 lakhs
  - Equipment : Rs. 3.00 lakhs
  - Seed Garden : Rs. 0.30 lakhs
  - Fellowships : 2.

8. Department of Zoology : The department was created during the fourth plan and conducts M.Sc. course in Zoophysiology. This has been discontinued and an M.Phil course in insect physiology has been started in 1974 with an annual intake of 5. The department proposes to strengthen M.Phil and undertake Faculty Improvement Programme for College Teachers. Twenty research scholars 17 full-time and three part-time.

Staff strength is one professor, one reader four lecturers. Major areas of research are Reproductive Biology of Invertebrate Comparative, Endocrinology, Muscle Physiology, Soil Zoology, Environmental Biology.

- Recommendations :-
- Staff : 1P, 1R, 1L
  - Books and Journals : Rs. 2.00 lakhs
  - Equipment : Rs. 3.00 lakhs
  - Animal House : and Rattery : Rs. 1 lakh
  - Fellowships : 2

Department of Aquatic Biology & Fisheries :- The Marine Biological Laboratory and Aquarium which was an independent unit within the Department of Marine Biology and Fisheries had been made a separate department consequent on the formation of the Cochin University in 1970 and designated as the Department of Aquatic Biology and Fisheries. Active research work is being done at present touching several aspects of Aquatic Biology. During the Fifth plan period it is proposed to expand the research activities of the Department and to make extensive studies on the vast fresh water and estuarine resources of the state and their effective utilisation. It is also proposed to start M.Sc. course in Aquatic Biology.

There is no teaching programme at present. The staff strength is 1 Professor, 1 Reader, 2 Lecturers (Curator),

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one post of Lecturer is vacant. The Committee is of the view that the Department should have a teaching programme and ~~conduct~~ post M.Sc. course in Aqua culture and allied fields. One lecturer in Limnology and one in Estuarine Biology are recommended among other things. Besides Renovation of Aquarium, Fish House and Culture Room and a lump-sum provision for chartering of boats at the rate of Rs. 10,000/- per annum. The areas of research in the Department are Taxonomy, Studies on fouling and boring organisms, Fishery Biology, Plankton Studies, Parasites of Invertebrates and Fishes, Crustacean Endocrinology, Biology of Intertidal molluscs, Interstitial faunds, Monographic studies, Marine Chemistry. Research Scholars 4.

Recommendations :- Staff : 2L  
Books and Journals : Rs. 2.00 lakhs  
Equipment : Rs. 2.00 lakhs (including chartering of boats)  
Renovation of Aquarium : Rs. 0.50 lakhs

10) Department of Economics : The Department has been running M.A. course in Economics with emphasis on Mathematical Economics, Econometrics and Advanced Statistics. The Department also offers facilities for research studies for Ph.D. degree. A number of research projects have also been undertaken. During the Fifth Plan period the Department intends to develop an integrated research programme with main focus on the economic development problems of Kerala. It is also proposed to introduce a revised M.A. course. Intake for M.A. is 25. Twelve scholars are registered for Ph.D. (five full-time, seven part-time). Staff strength is 2 Professors, 2 Readers, 3 Lecturers and 1 Research Assistant. Cooperative teaching in Trivandrum involving colleges in the University Departments have been started. This will be extended to other Centres having Postgraduate Colleges. A larger variety of optional subjects to students will be offered in the next course. The Department proposes to introduce M.Phil course shortly. Besides Teacher Improvement Programme for college teachers.

The Department needs strengthening in Political Economy, Micro Economics and Quantitative Analysis. Studies on interaction between Politics and Economic Development in the State should be undertaken on Inter-Departmental basis involving the Department of Politics, Sociology and Statistics.

The department has collaboration with the centre for Development Studies (which should be taken to be an autonomous body, but nevertheless a wing of the Kerala University, Department of Economics). By virtue of this institute, Trivandrum is one of the main Centres of Economic instruction in the country. A course in Political Economy which can be offered here would be of immense benefit not only to the state

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but for the country as a whole. As experts to teach it may not be readily available within the University's jurisdiction, a Visiting Professorship may be provided to attract the specialists from wherever they are available for short or medium term assignments on terms to be decided by negotiations and (like the School of Drama at the Calicut University) not subject to rigid regulations of grades etc. The Visiting Professor may either be posted at the Department or at the Centre, but in either case, he or she will be a member of the University Department.

Recommendations : Staff : 1R, 1R  
Books and Journals : Rs. 0.50 lakhs  
Fellowships : 2

11) Department of Politics : This Department conducts M.A. course in Politics and other facilities for research leading to M.Lit and Ph.D. degrees. Department proposes to undertake comparative studies of State Politics in Kerala, Tamil Nadu, Karnataka and Andhra. The Department was started in 1957.

Major areas of Research are (1) State Politics and Political Behaviour (2) Indian Government and Politics, (3) State and Local Administration. (4) Political Theory with special reference to Indian context. The staff strength is 1 Professor, 1 Reader, 4 Lecturers (two vacant). There are 20 research scholars in the Department (5) full time and 15 part-time). Intake is 25 for M.A.

Just as economics and sociology are recommended to be made more interdisciplinary, Political Science is similarly enjoined to give greater stress to economic and sociological aspects. Thus a study of some of the causes of poverty lies outside economics and in the field of Political Science. The role of concentration of Economic Power and Money in the democratic process at the time of the elections, and in inter-election years also, is of immense importance and social relevance. After some studies have been conducted, they should be formalised as material for a course of instruction in the Economic Framework of Political Activities.

Recommendations :- Staff : 1R, 1P  
Books and Journals : Rs. 4.00 lakhs  
Fellowships : 2

12) Department of Psychology : The Department conducts M.A. course in Psychology and registers students for Ph.D. Annual intake for M.A. is 16. A number of research projects aided and sponsored by Central Government, UGC, NCERT, ICSSR are underway. In the Fifth Plan the Department proposes to expand Postgraduate studies and Research and also proposes to start a one year diploma course in guidance and counselling on a priority basis.

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Staff strength is 1 Professor, 2 Readers, 3 Lecturers, The Department was started in 1957. 31 Research scholars are working (18 full-time, 13 part-time). The research areas are (1) Educational Psychology, (2) Industrial Psychology, (3) Social Psychology (4) Personality (5) Experimental Psychology, (6) Psychology of Population, (7) Research Methodology (8) Para Psychology.

The Committee is of the view that the Department should work in close cooperation with the Department of Education and Sociology.

Recommendations :- Staff : 1R, 1L  
Books and Journals : Rs. 1 lakhs  
Equipment : Rs. 1.00 lakhs  
Fellowships : 2

13) Department of History : An infant department started during the Fourth Plan, there is no teaching for M.A. Engaged in research in Indian History and extensive studies for research in the field of Kerala History and Culture, two research journals are published in the Department (Journal of Indian History, Journal of Kerala Studies). M.Phil course as a pre-Ph.D. programme and also Faculty Improvement programmes for college teachers may be undertaken.

Staff strength is 1 Professor and 2 Readers. Number of Research scholars 33 (11 full-time, 22 part-time). Two posts of the lecturers are recommended-one in Islamic History. The Department is cramped for space and may be shifted to the Kariavattom Campus and accommodated in the Social Science Block.

Recommendations :  
Staff : 2L,  
Books and Journals : Rs. 1.00 lakh  
Fellowships : 2

14) Department of Sociology : This is a newly started Department during the Fourth Plan period (1969). The Department offers M.A. course in Sociology and has undertaken various research programmes. During the Fifth Plan period the Department proposes to diversify the courses taught at the M.A. level and to start an M.Phil. course as a terminal degree programme for candidates going for research jobs and as a preliminary programme for doctoral candidates. The Department would also like to strengthen research activities.

The staff strength is 1 Reader and 2 Lecturers. Intake for M.A. is 20 and for Ph.D. 17.

The department has a standing arrangement with the State Tribal Research and Training Institute, Kozikode, whereby our

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Ph.D. students will be sent to the Institute for field work and collection of anthropological data. The special officer of this Institute is being considered for recognition as a supervising teacher for Ph.D. research by the University.

The Committee is of the view that the Department should undertake inter-disciplinary studies on Sociology of Economic Development in cooperation with the Department of Economics, as also with departments of politics and psychology.

Major areas of research are (1) Studies relating to Family Planning, (2) Urban integrated projects conducting studies for preparation of a plan of integrated services for children and youth in Trivandrum city. A survey and research unit was created in the Department for studies on Motivations and Morale in Kerala State Electricity Board, Peasants' organisations in Kerala, Directorate of Social Welfare, Monographs on Development, Structural Integration and disintegration and social change, a profile of scheduled castes and scheduled tribes in Kerala, preparation of abstracts of dissertation in Social Sciences for Ph.D. degrees of Kerala University.

Recommendations :

- Staff : 1P 1R, 1L
- Books and Journals : Rs. 1.00 lakhs
- Fellowships : 2

15. Department of Malayalam : The Department conducts M.A. course in Malayalam language and literature and offers facilities for research scholars working for M.Litt. and Ph.D. degrees. During the Fifth Plan period, it is proposed to consolidate and expand the activities of the Department particularly in research. With this end in view, the Department will be reorganised with the following divisions, each division entrusted with a definite area of work.

- i) Division of Literary Studies
- ii) Division of Language Studies
- iii) Bibliography and Documentation Division
- iv) Extension Services Division

Staff strength is 1 Professor, 1 Reader and 3 Lecturers. Intake for M.A. is 10. Number of Research scholars is 12.

Areas of Research are (i) Influence of other literatures on Malayalam (2) Bhakti Literature in Malayalam, (3) Malayalam Poetry, (4) Impact of Ideologies like Gandhism and Buddhism on the development of Malayalam (5) Folklore studies, (6) Study of Literary Genres and Movements (7) 20th Century Malayalam Literature. Proposed activities are :

- a) Preparation of comprehensive History of Malayalism Literature.

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The proposed work will be a century-wise history of Malayalam literature on critical lines.

b) Folk-lore studies :

The Department proposes to make a detailed survey of all the available sources in the field of folk-lore in Malayalam, collect all available materials and publish them.

c) Preparation of reference books on Malayalam Literature.

i) Companion to Malayalam Literature (based on the pattern of the Oxford Companion to English Literature)

ii) A Dictionary of Literary terms

B. Division of Language Studies :-

a) Preparation of History of Malayalam Language :

A history of Malayalam language, based on modern Linguistic principles, is proposed to be prepared.

b) Preparation of annotated critical editions of Early Malayalam Works :

The works of Niranam Poets will be taken up first

a) Bibliography and Documentation Div.

i) Publication of a quarterly descriptive bibliography of the current literature (concurrent abstracting journal in Malayalam)

ii) Publication of author-wise bibliographies.

iii) Preparation of indexes to select literary periodicals in Malayalam by author, title and subject.

iv) Preparation of abstracts of scholarly articles research papers, dissertations etc., relating to Malayalam Language and literature.

This work is intended to provide the basic tools of research in Malayalam.

D. Extension services Division.

a) Inservice scheme for college teachers in Malayalam (M. Phil and others).

b) Extension lectures and co-operative teaching in Post-graduate centres

c) Seminars and workshops on Literary and Research Problems.

Recommendations :

Staff : 1R, 1P, 1L

Books and Journals : Rs. 1.00 lakhs

Equipment : Rs. 10,000

Fellowships : 2

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16. Department of Tamil : The Department is running an M.A. course in Tamil and offers facilities for research leading to M.Litt. and Ph.D. Degrees. The department proposes to undertake the following schemes during the Fifth Plan period :

- i) Translation-cum-comparative literature project (Translation of Malayalam works of Literature into Tamil and Tamil works of Literature into Malayalam),
- ii) Study of the Tamil source materials for the History of Kerala including place names of Kerala.
- iii) Project on the Sangam Classics.  
Present staff is 1 Reader and 4 lecturers  
Present enrolment : M.A. 25 ; Research 15 (10 full-time) and has produced 9 Ph.D. and 6 M.Litt. during IV Plan.

Major areas of research are (1) History of Tamil Language with special reference to Sangam period and grammatical works, (2) Comparative study of Tamil and Malayalam Literature and Grammar, (3) Study of Medieval epics, (4) Literary Criticism, (5) Place names of Kerala and Tamilnadu, (6) Grammar of Sangam Classics.

The department may conduct studies on Dravidian Comparative Literature in cooperation with the Department of Malayalam and Sanskrit and also conduct teacher improvement programmes besides M.Phil.

Recommendations :

Staff : 1P  
Books and Journals : Rs. 0.50 lakhs; Equipment : 0.10 lakhs.  
Fellowships : 1

17. Department of Sanskrit : The Department has no teaching programme. The staff strength is 1 Professor, 1 Reader and 1 Lecturer. General areas of research are :

- a) Sanskrit Grammar; (b) Darshanas particularly Vedanta;
- (c) Sanskrit Literature of Kerala including history and epigraph
- (d) Vedic traditions of Kerala, (e) Preparation of monographs on important Sanskrit works with their critical editions,
- (f) Kerala's contributions to dramaturgy. The department has published the following :

- (1) Brahmasutrasankarabhasya-text edited into Malayalam translation and exegetical notes and Introduction in 5 volumes. By Dr. A. G. Krishna Warriar.
- (2) Bhatukavya of Melputtur Narayana Bhatta with the commentaries Krsnarpana and Ramapanivada's Vivarana by Dr. S. Venkitasubramonia Iyer

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- (3) Marayanabhatta's Prakriyasarvasva - A Critical Study by Dr. S. Venkitasubramonia Iyer
- (4) Pramanalakshanam of Sarvajnatman. By E. Easwaran Namputhiri.

Published 70 Research papers in various Indological journals. There are eight research scholars in the Department two full-time and six part-time) The department proposes to undertake (1) Vedanta Studies in the Department (2) History of Kerala, Sanskrit Literature. The staff may co-operate with the department of Malayalam in teaching and research.

Recommendations :-

Staff : 1R, 1L  
Books and Journals : Rs. 0.50 Lakhs  
Fellowships : 2

18. Department of English (Institute of English):- The department conducts M.A. course and research for M.Lit., Ph.D During the fifth plan (1) M.Phil. in English language and literature one year's course and (2) four months' inservice training in English language teaching will be undertaken.

Present staff strength is 1 Professor, 2 Readers and 5 lecturers. Number of research scholars - full-time 3, Part-time 12. Department prepares teaching materials.

Areas of research are (1) English literature, (2) American Literature.

Enrolment for M.A. is : 49.

Recommendations :

Staff : 1 R  
Books and Journals : 1.00 lakhs  
Fellowship : 1

19. German : The first batch of students in M.A. will pass out in 1976. The main areas of study are (1) German Literature (2) Translation of German works of literature into Malayalam.

Present staff : One expert from Germany, two lecturers and one research assistant. Some colleges have introduced German as second language for pre-degree, B.A. and B.Sc. courses. There is the need for translators, at Vikram Sarabhai Space

Centre and Tourist. department

M.A. intake is six students.

The department also teaches certificate course one in the morning and one in the evening.

Morning course enrolment : 24

Evening course enrolment : 3

Diploma course in the Evening (Enrolment) 23

Contd...



U.S.3

- 13 -

Many graduates of the Diploma course are interested to enrol for an advance course in scientific German or M.A. course. This could perhaps be done by substituting the present full-time M.A. course with M.A. part-time course. The department was instituted in 1960. In 1965 German was made compulsory for M.Sc. (Engg.) for B.Pharm. German is a compulsory subject. Diploma holders in German with first-class are admitted to M.A. B.A./B.Sc. with German as second language are also admitted.

Recommendations :-

Staff : 1R,  
Books and Journals : Rs. 0.40

20. Russian : Russian was started in 1969, There are two full-time teachers and one part-time, besides to experts from USSR. Three courses are presently running :

- 1) Certificate course (one year) - 80 students
- 2) Diploma course (one year) - 26 students
- 3) M.A. (three years) - 22 students (1st year)

This is the second year since the course was started.

There is increasing demand for introduction of Russian as a second language in the colleges, from industry, research organisations like VSSC, departments like Tourism. While supporting staff will be available from USSR, it is necessary to augment the staff strength.

Recommendations :

Staff : 1R, 2L  
Books and Journals : Rs. 0.50 lakhs

21. Department of Linguistics : The department conducts two courses M.A. in Linguistics and a certificate course in Linguistics and offers facilities for research leading to Ph.D degree. The department during the fourth plan period was able to develop a method by which teaching of Malayalam, Tamil, Kannada and Telugu has been simplified. It is proposed to develop this section during the fifth plan period. It is also proposed to make studies on the Linguistics theory of the traditional grammars.

In the survey of the Dialects of Malayalam also, the Department has made significant progress.

Major areas of research are (1) Dialectology, (2) Cognate Methods of teaching languages, (3) Transformational Theory.

During the fifth plan period it is proposed to survey the dialect of Malayalam spoken by the Muslims, region-wise and compare the findings in the Harijan, Nair and Ezhave Dialect Surveys : The Social Stratification among the Muslims, how they react to the spread of the standard dialect of Malayalam will also form part of the investigation in this

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survey which will take not less than three to four years. After that the Christian dialect of Kerala and their variation region wise and their social stratification will be explored. This will be followed by the study of the dialect of the Malayala Brahmins, Tulu and Tamil Brahmin settlers found throughout Kerala. This again will be followed by the study of the dialects of the bilingual areas in the northern, eastern and southern borders. There is ample work for another twenty five years.

The three Research Assistants in the dialects survey projects may be absorbed in the department on a permanent footing. The UGC Visiting Committee in 1968 had also recommended that the work should be done as an integral part of the Department.

The present staff strength is 1 Professor, 1 Reader, 4 Lecturers and 3 Research Assistants. Intake for M.A. is 20. Certificate course intake is 20. Absorption of three research assistants (Dialects Surveys 50% UGC share) is recommended on priority.

Recommendations :-

Staff : 1R  
Equipment : 0.60 lakhs  
Books : Rs. 1.00 lakhs (Field work - Rs. 10,000/--  
Fellowships : 2

22. Oriental Research Institute and Manuscripts Library:

The Library has vast collection of invaluable Manuscripts which are several centuries old. The development proposals envisaged during the Fifth Plan period are development of Museums, Acquisition of Micro Film Unit and Organising a preservation Unit with Laboratory and Technical Staff, Funds are also required for Manuscripts survey of the State as well as for publication of books. A descriptive catalogue of the manuscripts is also proposed to be prepared.

The present staff strength is one Director (Professor's scale), three Senior Research Officers (Reader's scale), six Research Officers.

Major areas of research are Research in Sanskrit and Malayalam, Education and Publication of critical edition based on manuscript, publications during 1968-73, 9 in Sanskrit, 14 in Malayalam.

The Micro-film Unit should be a common facility for the University. The MSS section may be air-conditioned.

The above department may better be shifted to the University Central Library in the town. This will be possible when Books and Journals from the Central Library in the city are shifted to the various school libraries in the University Campus.

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Recommendations :

Staff : 1 SRJ (Readers scale)  
Equipment : Rs. 1.00 lakhs  
Survey : Rs. 0.50 lakhs  
Air-conditioning : Rs. 0.50 lakhs  
of MSS Unit.

23. Department of Education :- The department offers Post-graduate course, M.Ed. Degree and research facilities for Ph.D. degree. During the fifth plan period the department proposes to undertake schemes to help teachers to incorporate up-to-date techniques and methods of teaching school subject and languages. It is also proposed to utilise educational unemployed potential to collect data for implementation of the schemes.

The present staff strength is 1 Professor, 2 Readers, 4 Lecturers.

Major areas of research :

- 1) Intercultural and Interpretative and translational studies
- 2) Approaches to the teaching of school subjects
- 3) Psychological studies such as construction of psychological tests, cultural deprivation, correlates of academic achievement, problems of adolescents and personality.
- 4) Economics of Education
- 5) Teacher Education
- 6) Functional Literacy and continuing education
- 7) Pre-school education.

The UGC had sanctioned in June 73 the following assistance upto the end of the fifth plan, which has to be included in the Plan allocations .

Readers 3  
Lecturer 1  
Language Laboratory : Rs. 1.00 lakh  
Books and Journals : Rs. 0.25 lakh  
Research Support : Rs. 10,000/-.

24. Department of Malayalam Lexicon : The department has published two volumes of Malayalam Lexicon and is now engaged in the preparation Vol. III. The assistance of the Commission ended with 1970-71.

The present staff strength is 1 Editor, 2 Assistant Editors, 2 Sub-Editors and 4 Assistants.

25. Study Centres : The University has started two study centres, one at Quilon and another at Changanacherry with UGC assistance during the Fourth Plan period. At present the centres are functioning as Reference Libraries for Postgraduate students. It is proposed to expand the activities of the centres and equip them adequately with Books to function as full-fledged libraries for students and teachers.

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Department of Journalism : The UGC had approved in 1971 assistance for starting a diploma course in Journalism. This could not be started by the University during the fourth plan. Meanwhile the University has approved the syllabus for M.A. course in Journalism. A citizen's Committee headed by the Municipal Chairman of Kottayam met the visiting committee during its visit to Trivandrum in November, 1974 and presented a memorandum requesting for the establishment of a University Postgraduate Centre of the Kerala University at Kottayam. The district of Kottayam has 24 colleges of which 15 are first grade colleges, four training colleges and five junior colleges. Four of the first grade colleges offer postgraduate courses in English, Malayalam, Hindi, History, politics, economics, sociology, mathematics, statistics, physics, chemistry, botany and zoology. Kottayam is the most active journalistic centre in the State publishing several dailies and periodicals. The Citizen's Committee wanted the proposed University Centre to start M.A. course in History with specialisation in International Relations (2) M.A. course in Journalism at Kottayam.

These proposals were considered by the Committee in the context of the plan of the university to start postgraduate university centres in the district headquarters. These centres are to be directly administered by the University and will offer new postgraduate courses for which there is no provision in the affiliated colleges. This is a matter for the university and the UGC to examine further. The visiting committee, however, does not favour starting of M.A. course in International Relations at Kottayam because, in this field there is need for inter-departmental cooperation on a multi-disciplinary basis both for teaching and research, for which Kottayam does not offer the required facilities.

As regards starting of master's course in Journalism the committee is of the view that since UGC has approved the proposal in the fourth plan, the university may go ahead with the programme, either at Trivandrum or at Kottayam as the university deem fit, taking into account the capital expenditure required for this venture. If the public of Kottayam can provide land and building to the university, the latter may explore the feasibility of starting the course at Kottayam. In this connection it may be noted that for the Calicut University of Fine Arts and Drama, a donor has given land and building at Trichur as gift to the university. The university may, therefore, decide the local for the course of journalism. The committee makes the following recommendations for the course :

Recommendations :

Staff : 1R, 2L

Visiting Experts/Specialists : Rs. 0.25 lakhs (UGC share)

Books and Journals : Rs. 0.40 lakhs

Equipment : Rs. 0.50 lakhs

Centre for Kerala Studies : This is an Inter-disciplinary unit

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The staff attached in the departments of Malayalam, Economics, History, Sociology, Politics, Linguistics etc. will work in the unit. Coordination will be done by a Professor. The committee feels that useful books and monographs as supplementary reading materials in colléges should be brought out by this unit, on a multi-disciplinary basis.

Recommendations :

Books and Journals : Rs. 0.50 lakhs

Survey Research Centre : A regular Centre for Survey Research is essential to develop inter-disciplinary and multi-disciplinary research in various social and Behavioral science disciplines viz., Demography, Statistics, Sociology, Social work, Psychology, Politics, Economics, History to cope with the developmental needs of the State. This Centre may coordinate research activities in the social and behavioral sciences in the States. The Centre could attract assistance for projects for institutions like UCSSR, ICAR, ICMR, CSIR, ICHR, FAO, ILO, WHO etc. The present staff may be absorbed by the university on a permanent footing. An inter-departmental committee consisting of the Heads of the above departments, with one of them acting as Chairman/Convener on a rotational basis may decide on the programmes and project of the Centre.

Recommendations :-

Staff : SRO 1 (Reader's scale)

Field work : Rs. 0.50 lakhs

The Centre may take up project work including techno-economic surveys of the districts, in co-operation with the Cochin and Calicut universities with a view to exploring the feasibility of locating developmental schemes. The centre may provide work experience to students in projects and field work.

The survey Centre could be an integral part of the School of Social sciences.

Department of Library Science : The department offers B.Lib. Sc. of one year's duration. Student strength is 30. Staff strength is 1 Professor, 3 Lecturers and 1 Reader (vacant). The proposal to start M.Lib. course during Fifth Plan period not recommended. Facilities available at Mysore and Karnataka universities for M.Lib. Sc. may be availed of. Inter-University communication in the region is desirable before new courses are started.

Recommendations :-

Books and Journals : Rs. 0.50 lakhs.

Central Library : The Central library now functions at Trivandrum. During the fifth plan period it is proposed to strengthen the Book stock of the library particularly in Science and Technology sections where there is inadequacy of upto-date books and back volumes of Research Journals. It is also proposed to build up a Section on Kerala studies in the library comprising books and

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other documents dealing with the various aspects of Kerala such as its History, Politics, Economics, Language and Literature, Arts. etc. Present staff is one chief Librarian (Reader's grade), Assistant Librarian (6), Library Assistants (9).

With proposed shifting of a large number of books to the University campus to be housed in the school Library, pooled on the basis of (School of Languages, School of Social Sciences, School of Life Sciences, School of Physical Sciences etc.). There is need for the services of Dy. Librarian at the university campus.

Recommendations : Books and Journals : Rs. 10.00 lakhs  
Equipment : Rs. 0.50 lakhs  
Staff : 1 Deputy Librarian [REDACTED]

In the course of the fifth plan almost all the departments will be shifted to the Kariavattom Campus 6 miles from the city. A Central library is, therefore, essential in the university campus but this may be in the III priority with UGC share of Rs. 10.00 lakhs. The main reason for the slow pace of development of the Kariavattom Campus is lack of facilities like central library, staff quarters, shopping centre, health centres, student homes, canteen facilities etc. Since there is no school in the vicinity both teaching and non-teaching staff are reluctant to shift to the campus. The university may take urgent steps so that all necessary facilities are provided in the campus to promote a corporate life. The sooner this is done, the better.

Central Workshop and Instrumentation and Services Laboratory :

This is recommended as a 'common facility' with a building estimated at Rs. 1.50 lakhs (UGC share 100%) in the first priority. Equipment and Instruments worth Rs. 10.00 lakhs is also recommended (6.00 + 2.00 \* 2.00). This is provided as a common facility for various user departments. Sophisticated and costly equipment from the science departments which are of common use by all departments may also be housed in this Centre. This could be decided by all concerned departments. This will also ensure inter-departmental cooperation in research activities and project work which is considered essential for M.Sc. programmes.

In order to maintain the Centre the following posts are recommended with 100% assistance from the UGC during the fifth plan :

- (1) Instrumentation Engineer (reader's scale)
- (2) One Junior Engineer/ Scientist (lecturer's scale)
- (3) Four technicians/mechanics

A joint Committee of the users departments will help in the smooth functioning of the centre which will also take

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care of the servicing of instruments in various departments.

Science Block :- A new science block to accommodate Physics, Chemistry and Biochemistry departments is recommended with 50,000 sq. ft. estimated at a cost of Rs. 24.00 lakhs (UGC share being Rs. 12.00 lakhs).

Teachers Hostel and Staff Quarters :- One teacher's hostel with 20 suites and 30 staff quarters (5P, 10R, 15L) may also be provided estimated at Rs. 20.00 lakhs with UGC share of Rs. 10.00 lakhs under priority II and III.

Miscellaneous Schemes :

a) Visiting Professorships: In order to avail of the services of experts from other universities in academic programmes, a provision of Rs. 2.00 lakhs is recommended for visiting professorships. These should be integrally related to the various programmes in the University departments and operated on the principle of complementarity.

b) Faculty Improvement Programme: Since the university departments have agreed to help upgrade and competence of teachers from colleges particularly postgraduate colleges, lumpsum provision of Rs. 6.00 lakhs is recommended within a plan allocation in order to help the university to start the programmes without delay.

c) Fellowships : With a view to strengthening research in the university departments and to provide for a steady supply of doctorates, the committee is of the view that it is necessary to provide research fellowships during the fifth plan, for which a provision of Rs. 10 lakhs is made. Hardly 5% of the teachers of the postgraduate classes in the colleges have research qualifications which is responsible for low standards of products from these colleges.

d) Publication : With a view to encouraging publication of high quality research work, monographs and curricular materials etc. a provision of Rs. 2.00 lakhs is also recommended within the plan allocation, or improvement and expansion of the University Press, a grant of Rs. 1.50 lakh may be provided as UGC share.

Sd/- Prof. N.V. Thirtha

2. Prof. E.S. Rajgopal
3. Prof. N.R. Deshpande
4. Prof. Agasthalingam
5. Prof. Gautam Mathur
6. Dr. N. K. Panikkar
7. Shri I. C. Menon

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KERALA UNIVERSITY

ANNEXURE

SUMMARY OF SPILL OVER + BASIC + NEW ALLOCATION  
ON THE BASIS OF V PLAN VISITING COMMITTEE.

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<u>A.</u>	<u>SPILL OVER</u>	<u>Rs. in lakhs</u>	<u>Rs. in lakhs</u>
	i) Buildings	14.30 0	
	ii) Staff	2.88 0	Appendix-I
	iii) Misc. schemes	1.50 0	
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 18.68	18.68
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/>	
<u>B.</u>	<u>BASIC</u>		
	i) Books	5.00	
	ii) Equipment	7.50	
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 12.50	12.50
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/>	
<u>C.</u>	<u>NEW ALLOCATIONS</u>		
	i) Books	36.05 0	
	ii) Equipment	44.80 0	
	iii) Buildings	35.50 0	Appendix-II
	iv) Others	14.30 0	
	v) Fellowships	10.00 0	
	vi) Recurring	29.00 0	
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 169.65	169.65
		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/>	
Grand Total (A + B + C)			<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 200.83

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Appendix-I

SPILL OVER SCHEDULES - KERALA UNIVERSITY, TRIVANDRUM

<u>BUILDINGS</u>	Rs.
1. Teachers Hostels	10,000
2. Staff Quarters	1,09,500
3. V. C. House	50,000
4. Gandhi Bhawan	5,000
5. Library Building	76,666
6. Arts & Language Blocks	77,471
7. Building for Oceanography, Stat. App. Chem.	1,44,220
8. Science Block No. I	59,594
9. Science Block No. II	56,666
10. Guest House	5,000
11. Women's Hostel	63,250
12. Men's Hostel	97,000
13. Women's Hostel	10,000
14. 50 Men's Hostel	2,80,000
15. 50 Women's P.G. Students Hostel	3,66,750
16. Construction of students Home	18,000
	<hr/>
	14,29,117
	<hr/>
<b>B. STAFF :</b>	
1. Salary of a Development Officer	7,500
2. Humanities Departments	50,000
3. Science Departments	1,00,000
4. Estt. of Study Centres (Quilon & Changanacherry)	1,20,000
	<hr/>
	2,87,500
	<hr/>
<b>C. MISCELLANEOUS SCHEMES</b>	
1. Botanical Garden	9,000
2. Publication of Malayalam Lexicon	1,11,084-44 p.
3. Installation of Gamma Source (Induced Mutation Section)	30,000
	<hr/>
	1,50,084-44 p.
	<hr/>
<b>GRAND TOTAL OF A + B + C</b>	
Rs. 14,29,117	
Rs. 2,87,500	
Rs. 1,50,084-44 p.	
	<hr/>
Rs. 18,66,701-44p.	
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( Grants sanctioned during IV Plan = 80.50 lakhs )

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KERALA UNIVERSITY

DEPARTMENTS	BOOKS				Equipment				BUILDINGS				OTHERS	FELLOW-SHIPS	REMARKS	
	I	II	III	Total	I	II	III	Total	I	II	III	Total				
1. Maths	0.50	0.30	0.20	1.00	-	-	-	-	-	-	-	-	-	-	2	
2. Statistics	0.50	0.30	0.20	1.00	1.00	0.50	0.50	2.00	-	-	-	-	-	-	2	
3. Physics	1.00	0.50	0.50	2.00	4.00	2.00	2.00	8.00	-	-	-	-	-	-	3	
4. Chemistry	1.00	0.50	0.50	2.00	4.00	0.00	2.00	6.00	-	-	-	-	-	-	3	
5. Bio-Chemistry	1.00	0.50	0.50	2.00	2.00	1.00	1.00	4.00	-	-	-	-	0.30*	1	*ACC Unit	
6. Geology	0.50	0.30	0.20	1.00	1.00	0.50	0.50	2.00	-	-	-	-	0.75x	1	x Vehicles	
7. Botany	1.00	0.50	0.50	2.00	1.50	0.75	0.75	3.00	-	-	-	-	0.30%	2	% Seed Garden	
8. Aquatic Biology & Fisheries	1.00	0.50	0.50	2.00	1.00	0.50	0.50	2.00*	0.50	-	-	0.50E	-	-	-	*Including Chatterning of Boats. & Renovation of Aquarium
9. Zoology	1.00	0.50	0.50	2.00	1.50	0.75	0.75	3.00	0.50	0.50	-	1.00@	-	2	@ Animal House & Battery	
10. Economics	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	2		
11. Politics	0.50	0.30	0.20	1.00	-	-	-	-	-	-	-	-	-	2		
12. Psychology	0.50	0.30	0.20	1.00	0.50	0.30	0.20	1.00	-	-	-	-	-	2		
13. History	0.50	0.30	0.20	1.00	-	-	-	-	-	-	-	-	-	2		
14. Sociology	0.50	0.30	0.20	1.00	-	-	-	-	-	-	-	-	-	2		
15. Malayalam	0.50	0.30	0.20	1.00	0.10	-	-	0.10	-	-	-	-	-	2		
16. Tamil	0.25	0.25	-	0.50	0.10	-	-	0.10	-	-	-	-	-	1		
17. Sanskrit	0.25	0.25	-	0.50	-	-	-	-	-	-	-	-	-	1		
18. English	0.50	0.25	0.25	1.00	-	-	-	-	-	-	-	-	-	1		
19. German	0.20	0.20	-	0.40	-	-	-	-	-	-	-	-	-	-		
20. Russian	0.25	0.25	-	0.50	-	-	-	-	-	-	-	-	-	-		
21. Linguists	0.50	0.25	0.25	1.00	0.25	0.25	0.10	0.60	-	-	-	-	0.10E	2	& Field Work	
22. Oriental Res. Instt. & Mss. Lib.	-	-	-	-	0.50	0.25	0.25	1.00	-	0.50	-	0.50@	0.50x	-	-	@Air conditioning. x Surveys. † Research Support
23. Education	0.15	0.10	-	0.25	0.50	0.25	0.25	1.00	-	-	-	-	0.10†	-	† Research Support	
24. Journalism	0.15	0.15	0.10	0.40	0.25	0.25	-	0.50	-	-	-	-	0.25*	-	*Visiting Experts/Specialists.	

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DEPARTMENTS	BOOKS				EQUIPMENT				BUILDINGS				OTHERS	FELLOW-SHIPS	REMARKS	
	I	II	III	Total	I	II	III	Total	I	II	III	Total				
25. Centre for Kerala Study	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	
26. Survey Res. Cen.	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	"Field work"	
27. Lib. Sc.	0.30	0.20	-	0.50	-	-	-	-	-	-	-	-	-	-	-	
28. Central Lib.	4.00	3.00	3.00	10.00	0.30	0.20	-	0.50	-	-	-	-	-	-	-	
29. Cent. Wksp. & Instrumentation & services Lab.	-	-	-	-	4.00	3.00	3.00	10.00	1.50	-	-	1.50	-	-	-	
30. GENERAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
St. Elock	-	-	-	-	-	-	-	-	6.00	3.00	3.00	12.00	-	-	-	
31. Teachers Host. & Staff Qrs.	-	-	-	-	-	-	-	-	0.00	5.00	5.00	10.00	-	-	-	
32. Lib. at Univ. Campus	-	-	-	-	-	-	-	-	0.00	3.00	7.00	10.00	-	-	-	
<b>MISC. SCHEMES</b>																
33. Visiting Prof. & Ships	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	-	
34. Faculty Improv. Programmes.	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00	Fellowships	
35. Publications	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	Upto 20% would	
36. Univ. Press	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50	be Senior Fellows	
	17.15	10.70	8.20	36.05	22.50	10.50	11.80	44.80	8.50	12.00	15.00	35.50	14.30		33	

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APPENDIX-III

KERALA UNIVERSITY

S.No.	Department	P	R	L	O	REMARKS
1.	Mathematics	1	1	-	-	
2.	Statistics	-	1	1	-	
3.	Physics - I	II 1	3 I	4	-	
4.	Chemistry	I-II	1-I-II	2	-	
5.	Biochemistry	I-II	1	2	-	
6.	Geology	I	2	-	-	
7.	Botany	I-II	1-I-II	1	-	
8.	Zoology	I	1	1	-	
9.	Aquatic Biology & Fisheries	-	-	2	-	
10.	Economics	-	2	-	-	
11.	Politics	I-II	1	-	-	
12.	Psychology	I-II	1	1	-	
13.	History	-	1-I-II	2	-	
14.	Sociology	I	1	1	-	
15.	Malayalam	I	1-I-II	1	-	
16.	Tamil	I	1-I-II	-	-	
17.	Sanskrit	-	1	1	-	
18.	English	-	1	-	-	
19.	German	-	1	-	-	
20.	Russian	-	1-I-II	2	-	
21.	Linguistics	-	1	-	-	
22.	Oriental Research Instt. & M.S.S. Library.	-	1	-	-	Sen. Res. Officer
23.	Education	-	3	1	-	
24.	Central Library	-	-	-	1	Deputy Lib.
25.	Journalism	-	1	2	-	
26.	Survey Research	-	1@	-	-	@ Sen. Res. Officer
27.	Central Workshop & Instt. Lab.	-	1*	1	4@	@ Technician Mechanic * Senior Research Officer
		9	29	25	5	

T O T A L :  
P 9  
R 29  
L 25  
O 5

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Appendix-IV.

KERALA UNIVERSITY

STAFF STRENGTH

	I	II	III
1. Mathematics.	P-1	R-1	-
2. Statistics.	-	R-1	L-1
3. Physics.	P-1 R-1 L-1	R-2	L-3
4. Chemistry	-	R-1	L-2
5. Bio-Chemistry	R-1	P-1 L-1	L-1
6. Geology.	R-1	P-1	R-1
7. Botany.	R-1	L-1	-
8. Zoology.	P-1	R-1	L-1
9. Aquatic Biology & Fisheries.	L-2	-	-
10. Economics.	R-1	R-1	-
11. Politics.	R-1	P-1	-
12. Psychology.	R-1	L-1	-
13. History.	L-1	L-1	-
14. Sociology.	P-1	R-1	L-1
15. Malayalam.	R-1	P-1	L-1
16. Tamil.	P-1	-	-
17. Sanskrit.	-	R-1	L-1
18. English.	R-1	-	-
19. German.	R-1	-	-
20. Russian.	R-1	L-1	L-1
21. Linguistics.	-	R-1	-
22. Oriental Research Institute.	R-1	-	-
23. Survey Research Centre.	R-1	-	-
24. Central Workshop & Instrumentation Lab.	R-1 O-2	L-1 O-2	-
25. Central Lib.	O-1	-	-
26. Education.	R-2	R-1	L-1
27. Journalism.	R-1	L-1	L-1

P-5	P-4	P-0
R-17	R-11	R-1
L-4	L-7	L-14
O-3	O-2	O-0

P 9  
R 29  
L 25  
O 5

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UNIVERSITY GRANTS COMMISSION

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Meeting:

Dated : 14th July, 1975.

Item No. 8: To consider the report of the U.G.C. Visiting Committee to the Universities of Utkal, Sambalpur and Berhampur

The University Grants Commission appointed a Committee consisting of the following to assess the development requirements of Utkal, Sambalpur and Berhampur Universities for the Fifth Plan period:

1. Professor Rais Ahmed, Convener  
Director,  
NCERT & Member, U.G.C.
2. Professor D.N. Raychaudhuri,  
Department of Zoology,  
Calcutta University.
3. Professor B. Mukherjee,  
Department of Geology,  
Jadavpur University.
4. Professor K. S. Bhargava,  
Department of Botany,  
Gorakhpur University.
5. Professor Andre Beteille,  
Department of Sociology,  
Delhi University.
6. Professor S. D. Singh,  
Department of Psychology,  
Meerut University.
7. Shri D.D. Jena,  
Deputy Director of  
Public Instruction,  
(nominee of the Government of  
Orissa).
8. Dr. T.N. Hajela, Secretary  
Deputy Secretary,  
University Grants Commission,  
New Delhi.

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2. The Committee visited the Utkal University on 17th - 18th January, 1975, Sambalpur University on 20th - 21st January, 1975 and Berhampur University on 23rd - 24th January, 1975 and had discussions with the Vice-Chancellors, Heads of Departments, teachers and University Officers. It also met a representative group of students and research scholars. The Committee had also had a brief meeting with the Chancellor, Education Minister and Secretary to the Government of Orissa in the Department of Education. In the meeting with the Chancellor and the Education Minister, the Administrator of the Utkal University was also present. As a result of these deliberations, the Committee could get an idea of the problems faced by the universities and the State Government in the field of higher education, efforts made by the State Government to tackle them, their policy towards the development of education in the Fifth Plan and the priorities fixed by them in the field of university education in the State.

3. The report of the Committee is in four parts. Part-I gives background information and general observations of the Committee in regard to the development of the universities in the State. Parts-II, III and IV are reports of the Committee on the universities of Utkal, Sambalpur and Berhampur respectively.

4. The report has the approval of all the members of the Committee.

5. The factual position regarding the utilisation of the allocation made to these Universities in the Fourth Five Year Plan is given below:

5.1 Utkal University:

The Commission during the Fourth Five Year Plan accepted the proposals of the University for the establishment of the post-graduate departments of Mathematics, Physics, Chemistry, Botany, Geography, English, Oriya, Sociology, Labour Welfare and Law. The Commission also provided assistance for the construction of a boys' hostel (200 boarders), girls' hostel (100 boarders), student home, guest house and staff quarters for five readers and ten lecturers. The total allocation made to the university for the schemes approved during the Fourth Plan was Rs.124 lakhs. The grants released upto the end of Fourth Plan period amounted to Rs.96 lakhs. Since the balance payable to the university towards the purchase of books and equipment and the appointment of staff, lapsed with the end of the plan period, the actual spill-over to be carried to the Fifth Plan amounts to Rs.22.42 lakhs which would be the first charge on the Fifth Plan allocation of Rs.1.5 crores. The University has completed the construction of geology, chemistry and physics blocks, animal house for the department of psychology,

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anthropology and statistics building; library building, staff quarters, girls' hostel, 2 boys' hostel and student home, while the construction of arts block (extension), installation of gas plant and the building of central workshop were in progress. The library building for LL.M. course has not been taken up.

### 5.2 Sambalpur University:

During the Fourth Five Year Plan the Commission provided assistance for the construction of academic buildings, hostels, Vice-Chancellor's residence, staff quarters, student home, teachers' hostel and health centre, for the establishment of study centre and employment information-cum-advisory bureau, for the purchase of water coolers, living room furniture for the hostels, equipment for science departments, library books and journals, for the publication of research works and for the appointment of additional staff in humanities and social sciences and science departments. The total allocation made to the University for these schemes was of the order of Rs.59.14 lakhs. The grants released upto the end of the Fourth Plan period amounted to Rs.49.02 lakhs. Since the balance payable to the university for the purchase of books and equipment lapsed with the end of the Fourth Plan, the actual spill-over to be carried to the Fifth Plan is Rs.8.39 lakhs which would be the first charge on the Fifth Plan allocation of Rs.1.00 crore.

Physics, Chemistry and Geology blocks, building of the health centre, student home, two boys' hostel and one girls' hostel, bachelors' flats and lecturers' quarters have been completed. Building of the arts block, Vice-Chancellor's residence and staff quarters were under construction.

### 5.3 Berhampur University:

The Commission during the Fourth Five Year Plan assisted the University towards the establishment of the postgraduate departments of chemistry, mathematics, physics, botany, zoology, labour and social welfare, political science, economics, history and oriya.

The Commission also provided assistance for the construction of humanities block, science block, student home, girls' hostel, two boys' hostels and staff quarters for the purchase of library books and journals, furniture and science equipment for the establishment of study centre, purchase of a bus and employment of trained coaches. The total share of the Commission towards these schemes was of the order of Rs.74.06 lakhs against which an amount of Rs.52.29 lakhs had been paid to the university upto the end of the Fourth Plan period. The actual spill-over to be carried to the Fifth Plan amounts to Rs.20.44 lakhs, which would be the first charge on the Fifth Plan allocation of Rs.1.00 crore.



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6. The presence of the Deputy Director of Public Instruction (Higher Education) on the Committee was useful. Although the position regarding the financial support to be made available through the State Government was not made clear, he apprised the Committee of the general policy of the State Government.

7. The general observations and recommendations of the Committee are given below:

- (i) Since the number of periods allotted to lecture work is on the high side these be reduced substantially so as to allow the students time for consulting the library and have time for attending tutorials/seminars.
- (ii) The intake be increased only in those departments where it does not require any increase in the existing physical facilities.
- (iii) Special papers may be introduced only in those subjects which are relevant to the research activities of the department.
- (iv) Since it is not possible to provide all departments in all the universities, due consideration should be shown to students of other universities in the departments which have already been started or which are to be set up during the Fifth Plan.
- (v) Since no programme of inter-disciplinary research have been undertaken, it would be desirable if not only inter-departmental studies but inter-university collaborative programmes are introduced.
- (vi) For the purchase of items of equipment exceeding more than Rs. 30,000/—, a purchase committee may be set up which may purchase the equipment after pooling the resources of all the departments.
- (vii) The book grant may be utilised between the departmental libraries and central library on 50:50 basis and one-third of the book grant may be used for purchasing text books. Book grants should be spent in phases by spreading it over the entire Fifth Plan period. Back volumes of journals may be purchased out of the grant given by the Commission and current journals may be purchased from the block grant provided by the State Government.
- (viii) Student amenities are inadequate. Hostels are overcrowded and messing facilities are very poor. The

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medical care and canteen facilities are inadequate and need to be strengthened. The playgrounds are to be developed.

(ix) Since the programme of making up deficiencies in general amenities will involve construction of buildings on a considerable scale, the universities may adopt economical ways of construction and plan its building so that they are more functional and the quality of construction is ensured. It would be advisable if they consult organisations like C.B.R.I and N.B.C.C.

8. The main recommendations of the Committee regarding consolidation of the existing departments and opening up of new departments, relating to each university are given below:-

A. Utkal University:

(I) Consolidation of existing departments:

Grants amounting to Rs.11.25 lakhs for the purchase of books; Rs.17.80 lakhs for the purchase of equipment; Rs.3.90 lakhs for extension of buildings and purchase of furniture and Rs.3.20 lakhs for miscellaneous items like collection of manuscripts, purchase of vehicle, field trips, museum, herbarium, botanical garden, fernhouses have been recommended by the Committee.

(II) New Departments:

The Committee has recommended the setting up of a Centre for regional studies on an inter-departmental basis. The recommendations of the Committee is that a seed grant of Rs.25,000/- may be provided to the University for preliminary preparations and a provision of Rs.10.00 lakhs may be approved for various physical inputs on the basis of the recommendations of an expert committee to be appointed by the university for the purpose.

(III) The Committee has recommended the provision of Rs.1.00 lakh for the purchase of equipment and the appointment of technical staff for the central workshop.

(IV) Among student amenities, the Committee has recommended two boys' hostel (200 boarders) and one girls' hostel (100 boarders) in the first priority and another hostel for 100 boarders for boys in the second priority. The Committee has also recommended assistance for the extension of the building of the health centre, purchase of beds and equipment and appointment of staff. The Committee has further recommended the strengthening of canteen facilities. A provision of Rs.6.00 lakhs for the award of 10 junior research fellowships has also been recommended by the Committee.

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(V) For the teachers, the Committee has recommended assistance for the construction of residential quarters for 8 professors, 20 readers and 15 lecturers.

(VI) Under general schemes the Committee has recommended the setting up of a printing press on the campus of the university.

(VII) Proposals not recommended by the Committee:

The Committee has not recommended the proposal of the University for the establishment of the departments of meteorology, library science and public administration.

(IX) Financial Implications:

The financial implications of the recommendations within the tentative allocation of Rs. 1.5 crores are given below:-

(a)	Spill-over schemes:	Rs. 22.42 lakhs.
(b)	Basic grant for books:	Rs. 4.00 lakhs.
(c)	Basic grant for equipment:	Rs. 5.00 lakhs.
(d)	<u>New allocations:</u>	
(i)	Books	Rs. 21.25 lakhs.
(ii)	Equipments	Rs. 18.98 lakhs.
(iii)	Buildings	Rs. 37.51 lakhs.
(iv)	Others/Misc.	Rs. 4.65 lakhs.
(v)	Jr. Research Fellowships.	Rs. 6.00 lakhs.
(vi)	Recurring.	Rs. 17.96 lakhs.
(vii)	Centre for regional studies.	Rs. 10.00 lakhs.

Total: Rs. 147.77 lakhs.

Taking the spill-over and the basic grants approved during 1974-75 the outlay will be:

1st priority:	Rs. 80.67 lakhs.
2nd priority:	Rs. 35.42 lakhs.
3rd priority:	Rs. 31.68 lakhs.

About Rs. 17.96 lakhs are estimated for recurring expenditure towards the appointment of 2 professors, 16 readers, 20 lecturers and 9 others. Of the above staff, 2 professors, 9 readers, 2 lecturers and 9 others are in the first priority, 6 readers and 9 lecturers are in the 2nd priority, one reader and 9 lecturers are in the 3rd priority. The expenditure on the maintenance of these posts will be taken over by the State Government from the beginning of the Sixth Plan.

B. Sambalpur University:

(I) Consolidation of existing departments:

For the consolidation of the existing departments, the Committee has recommended a provision of Rs.3.00 lakhs for the purchase of books; Rs.7.35 lakhs for the purchase of equipment; Rs.60,000/- for the purchase of furniture and Rs.2.95 lakhs for miscellaneous items like museum, herbarium, animal house, collection of manuscripts, research and survey work, field trips etc.

(II) New Departments:

The Committee has recommended the setting up of postgraduate departments in sociology and anthropology, home science, statistics and library science. For these departments a total provision of Rs.1.5 lakhs for books; Rs.1.75 lakhs for equipment, Rs.3.5 lakhs for buildings; and Rs.10,000/- for miscellaneous items has been recommended by the Committee.

(III) The Committee has also recommended a provision of Rs.1.00 lakh for building, Rs.1.5 lakhs for equipment and Rs.10,000/- for furniture and technical staff for the central workshop.

(IV) Under student amenities the Committee's recommendations are:- (a) one boys' hostel and one girls' hostel in the first priority and another boys' hostel in the second priority; (b) staff for the health centre; (c) strengthening of canteen facilities; and (d) a provision of Rs.6.00 lakhs for the award of 10 junior research fellowships.

(V) For teachers the Committee has recommended residential quarters for 2 professors and 5 readers and 2 teachers hostels.

(VI) Under general facilities, the Committee has recommended a provision of: (a) Rs.1.5 lakhs for guest house-cum-staff club; (b) Rs.1.00 lakh for residential quarters for Class-IV employees and (c) the appointment of a development officer.

Proposals not recommended by the Committee:

The University has submitted proposals for the establishment of the postgraduate departments of geology, geography, LL.M., Indian Culture and Civilisation, and home science, industrial and business management, statistics and operation research, library science etc. The Committee has, however, recommended the setting up of the departments of sociology and anthropology, home science, statistics and library science.

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Financial Implications:

The financial implications of the recommendations of the Committee against the tentative allocation of Rs.1.00 crore for the university are:

(a)	Spill-over	Rs. 8.39 lakhs.
(b)	Basic grant for books	Rs. 3.00 lakhs.
(c)	Basic grant for equipments	Rs. 5.00 lakhs.
(d)	<u>New Allocations:</u>	
	(i) Library books	Rs. 11.50 lakhs.
	(ii) Equipments	Rs. 10.60 lakhs.
	(iii) Buildings	Rs. 34.25 lakhs.
	(iv) Others/Miscellaneous	Rs. 3.05 lakhs.
	(v) Jr. Research Fellowships	Rs. 6.00 lakhs.
	(vi) Recurring	Rs. 21.33 lakhs.

Total: (a + b + c + d) Rs. 103.12 lakhs.

Taking the spill-over and the basic grant approved during 1974-75, the total outlay (NR) will be:

1st priority:	Rs. 57.88 lakhs.
2nd priority:	Rs. 26.51 lakhs.
3rd priority:	Rs. 18.93 lakhs.

About Rs.21.33 lakhs are estimated for recurring expenditure for 3 professors, 15 lecturers and 16 others. Of the above staff one professor, 10 readers, 3 lecturers and 1 other are in the 1st priority, 2 professors, 3 readers, 8 lecturers and 7 others are in the 2nd priority, and 2 readers, 4 lecturers and 8 others are in the 3rd priority. The expenditure on the maintenance of these posts will have to be taken over by the State Government at the end of the Fifth Plan.

C. Berhampur University:

I. Consolidation of existing departments:

For the consolidation of the existing departments, the Committee has recommended grants amounting to Rs.6.10 lakhs for the purchase of books; Rs.6.25 lakhs for the purchase of equipment; Rs.37,500/- for the purchase of furniture and Rs.3.22 lakhs for miscellaneous items like museum, herbarium, animal house, field trips etc. etc.

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II. New Departments:

The Committee has recommended the setting up of the departments of journalism, english, commerce and linguistics. For these departments an amount of Rs. 1.20 lakhs has been recommended for the purchase of books and journals, Rs. 25,000/- for equipment Rs. 2.525 lakhs for buildings. It has also recommended the establishment of a research centre in marine sciences and has suggested that an amount of Rs. 25,000/- may be paid to the University as seed grant for making preliminary preparations and Rs. 10.00 lakhs may be provided for physical inputs on the basis of the recommendations of an expert committee to be set up for planning the programmes of the centre.

III. The Committee has further recommended a provision of Rs. 7.5 lakhs for the construction of ground floor of the library building and Rs. 5.00 lakhs for the purchase of books and journals. An amount of Rs. 50,000/- for building and Rs. 1.25 lakhs for equipment and appointment of technical staff for the central workshop and an amount of Rs. 85,000/- for the installation of gas plant, have also been recommended.

IV. Under student amenities the Committee has recommended: (i) one hostel for 100 boys and 1 hostel for 50 girls; (ii) Establishment of health centre; (iii) Strengthening of canteen facilities and (iv) an amount of Rs. 6.00 lakhs for the award of 10 junior research fellowships.

V. Under general schemes, the Committee has recommended that in view of the position explained by the Vice-Chancellor the buildings relating to the 2nd science block, guest house, second boys' hostel, extension of humanities block, two reader type quarters and 2 lecturer type quarters, 6 professors' quarters and 5 readers' quarters which were started by the University towards the end of the Fourth Plan lying incomplete, may be treated as ongoing projects and Commission's share on the usual sharing basis may be included in the spill-over to be carried over to the Fifth Plan as a special case.

VI. Proposals not recommended by the Committee:

Although the university proposed to establish new departments of marine biology, master of business administration, linguistics, english, commerce, oceanography and meteorology, library science, pharmaceutical chemistry, diploma in foreign languages, home science, criminology and forensic science, the Committee has, however, recommended the setting up of departments of journalism, English, Commerce and linguistics and a research centre in marine sciences.

Financial Implications:

Financial implications of the recommendations of the Committee against the allocation of Rs.1.00 crore are:

(a)	Spill-over schemes:	Rs. 20.44 lakhs.
(b)	Basic grant for books:	Rs. 3.00 lakhs.
(c)	Basic grant for equipment:	Rs. 5.00 lakhs.
(d)	<u>New Allocations:</u>	
(i)	Books:	Rs. 12.30 lakhs.
(ii)	Equipments:	Rs. 7.75 lakhs.
(iii)	Buildings:	Rs. 20.475 lakhs.
(iv)	Others/Miscellaneous:	Rs. 4.32 lakhs.
(v)	Jr. Research Fellowships:	Rs. 6.00 lakhs.
(vi)	Recurring:	Rs. 21.22 lakhs.
(vii)	Centre for marine sciences:	Rs. 10.00 lakhs.

Total: (a + b + c + d) Rs. 110.505 lakhs.

Taking the spill-over and the basic grants approved during 1974-75, the total outlay will be:

1st priority:	Rs. 57.07 lakhs.
2nd priority:	Rs. 27.41 lakhs.
3rd priority:	Rs. 26.025 lakhs.

Total: Rs. 110.505 lakhs

About Rs.21.22 lakhs are estimated as recurring expenditure for 12 professors, 15 readers, 13 lecturers and 8 others. Of the above staff 11 professors, 2 readers, 2 lecturers and 3 others are in the 1st priority; 1 professor, 11 readers, 3 lecturers and 2 others are in the 2nd priority; and 2 readers, 8 lecturers and 3 others are in the 3rd priority. The expenditure on the maintenance of these posts will have to be taken over by the State Government at the end of the Fifth Plan period.

While indicating the priorities for various programmes, the Committee tried to conform to 50:25 formula as far as possible, but could not succeed in following it strictly for a variety of reasons. Firstly, the universities in Orissa have not been able, owing to a variety of reasons, to utilise the Fourth Plan allocation fully and, therefore, a large spill-over has been carried over from the Fourth Plan to the Fifth Plan, secondly, the building component is very large and the Committee is of the view that a flexible approach in this regard is essential for the proper development of the

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universities - especially in backward region of the country. Further, two universities, namely, Berhampur and Sambalpur are comparatively and obviously require more buildings. These universities are situated at a distance from the main towns and, therefore, have to be developed more or less as residential universities. Consequently, they will have to provide residential facilities to their students and staff. Similarly academic buildings for the existing departments will have to be extended and for new departments and library buildings will have to be provided. Thirdly, the staff component is also large, as these universities have to provide facilities for teaching and research in a number of new subjects besides strengthening the existing departments.

Attempts have been made to keep the allocation for various physical inputs within the limits indicated by the U.G.C. planning group i.e. (20% for books, 20% for equipment, 27% for staff, 25% for buildings and 8% for miscellaneous items. While the allocation for books, equipment and miscellaneous items is well within the suggested limits, that relating to building and staff has exceeded. Only important and indispensable buildings have been accommodated, although for the proper development of the campus a good deal of investment is necessary during the course of the next 10 or 15 years.

The total allocation in the case of the Sambalpur University has exceeded by Rs.3.12 lakhs and in the case of Berhampur University by Rs.10.50 lakhs. In view of the special conditions of Orissa and also that the amount by which allocation exceeds, is not substantial, the Commission may approve it.

The report is placed before the Commission for consideration.

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Report of the Visiting Committee to  
the Universities of Utkal, Sambalpur  
& Berhampur in the State of Orissa:

PART - I

The University Grants Commission appointed a Committee consisting of the following to assess the requirements of the Universities in the State of Orissa during the Fifth Five Year Plan period in the context of the overall allocation made by the Commission to these universities:-

- |    |   |           |
|----|---|-----------|
| 1. | Professor Rais Ahmed,<br>Director,<br>NCERT & Member UGC.   | Convenor  |
| 2. | Professor D.N. Raychaudhuri,<br>Department of Zoology,<br>Calcutta University.                        | Member    |
| 3. | Professor B. Mukherjee,<br>Department of Geology,<br>Jadavpur University.                             | "         |
| 4. | Professor K.S. Bhargava,<br>Department of Botany,<br>Gorakhpur University.                            | "         |
| 5. | Professor Andre Beteille,<br>Department of Sociology,<br>Delhi University.                            | "         |
| 6. | Professor S.D. Singh,<br>Department of Psychology,<br>Meerut University.                              | "         |
| 7. | Shri D.D. Jena,<br>Deputy Director of Public<br>Instruction (nominee of the<br>Government of Orissa). | "         |
| 8. | Dr. T.N. Hajela,<br>Deputy Secretary,<br>University Grants Commission.                                | Secretary |

2. Schedule of work of the Committee:- The Committee visited the Utkal University on 17th - 18th January, 1975,

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Sambalpur University on 20th - 21st January, 1975 and Berhampur University on 23rd - 24th January, 1975 and had discussions with the Vice-Chancellors, Heads of Departments, teachers and University officers. It also met a representative group of students and research scholars. The Committee had also had a brief meeting with the Chancellor, Education Minister and Secretary to the Government of Orissa in the Department of Education. In the meeting with the Chancellor and the Education Minister, the Administrator of the Utkal University was also present. As a result of these deliberations, the Committee got an idea of the problems faced by the universities and the State Government in the field of higher education, efforts made by the State Government to tackle them, their policy towards the development of education in the Fifth Plan and the priorities fixed by them in the field of university education in the State. The main aspects of education and literacy in the State along with the impressions and recommendations of the Committee are given in this part of the report.

3. Economic and Educational background of the State:

3.1 Orissa is one of those States in the country which are considered backward. 38% of its population belongs to scheduled castes and scheduled tribes. About 2/3 of its population is under national poverty line. The per capita income of people in the State is about Rs.266/-. 49.16% of the working population is engaged in agriculture as cultivators and 28.29% as agricultural labourers. The remaining 22.55% is employed in other occupations/professions. The per capita expenditure on training and education in the State is Rs.64.05 at the primary level, Rs.200.73 at the secondary level and Rs.790.15 at the higher education level.

/special

3.2 Since more than 38% of the population comprises socially disadvantaged sections of the community, the State Government has always attached a high priority to their welfare and education. The State Government has launched from time to time programmes for the education of children belonging to scheduled castes and scheduled tribes, such as provision for reservation of seats in schools, colleges, technical institutions and services and provision of scholarships and hostel facilities. Of the total students enrolled at the primary level 27.22% belong to scheduled castes and scheduled tribes. This percentage in regard to high school/higher secondary education is 12.62 while at the college level it is only about 4.01.

/of enrolment

3.3 According to 1971 census report, while the all-India percentage of literacy was 29.34%, for Orissa it was 26.12%. In the field of female literacy the average was 13.75% as against the all-India average of 18.44%. In the field of primary education (age-group 6- 11) percentage for Orissa was 70 as against the all-India average 80.5 while in the field of middle school education

(age-group 11-14) the Orissa percentage was 21.15 against the all-India percentage of 34.2% in high school education (age-group 15 - 17), it was 14.1 as compared to the all-India percentage of 20.7% and in the field of higher education (age-group 18-22) it was 2.0 as against the all-India percentage 4.0%.

3.4 The major problem facing the State regarding educational development and through it, economic development is to increase the percentage of literacy for the socially disadvantaged communities. It has been realised in official circles that for achieving something substantial the working and the programmes of the schools will have to be changed so as to enable the tribal children to leave homes and join schools and restructure the courses so as to make them relevant to the needs of the tribal areas.

At the primary education stage the coverage in the tribal areas varies between 28 - 58% (the average being 33%), as against the state average coverage of 70% of this age group of population. The middle schools enrolment in the tribal areas is 6.12% while the State average is 24.50%. In the case of high school enrolment the State average is 14% whereas in the tribal areas it is 6.09%.

In the field of higher education, in 1973-74, of the total enrolment of 71761 students, the number of scheduled castes candidates was 465, while of those belonging to scheduled tribes was 403. At the postgraduate level there were only six candidates belonging to the scheduled castes/tribes in the whole of the State. During the Fourth Plan period some special efforts were made by the Government to raise the low coverage of scheduled castes and scheduled tribes children but much could not be gained as the children of these communities were not in a position to attend regular full-time courses.

3.5 There are three multi-faculty universities, viz., Utkal, Sambalpur and Berhampur, one agricultural university, 84 arts, science and commerce colleges, six teacher training colleges, three law colleges, three medical colleges and two engineering colleges in the State.

3.6 The jurisdiction of the Utkal University spreads over the districts of Balasore, Cuttack, Dhankanal, Keonjhar, Mayurbhanj and Puri. In 1971-72 about 26% of the population in the district of Balasore, 21% in the district of Cuttack; 29.5% in the district of Dhankanal, 58.5% in the district of Keonjhar, 66% in the district of Mayurbhanj and 17% in the district of Puri belonged to scheduled castes and scheduled tribes. The districts of Mayurbhanj and Keonjhar were predominantly tribal districts. Besides two constituent colleges, 51 colleges were affiliated to the University in 1973-74. Of these colleges 46 were Arts, Science and Commerce colleges, three

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were teacher training colleges, one Ayurvedic College and one medical college. The total enrolment of these colleges was 44,830. The greatest problem faced by the University and the State Government is the growing demand for admission to the University courses. In the Fifth Plan the University has proposed to double the intake of all the departments. The University has 21 postgraduate departments including LL.M. with an enrolment of 1446 students. The University has also introduced correspondence courses at the intermediate and undergraduate levels to reduce the pressure of admission.

3.7 The jurisdiction of the Sambalpur University extends over the districts of Bolangir, Kalahandi, Sambalpur and Sundergarh. The districts of Sundergarh is predominantly a tribal district where 33.40% of the population comprises scheduled tribes. In the district of Kalahandi 29.36% of the population and in the district of Sambalpur 28.13% population comprises scheduled tribes. In 1973-74, besides, two constituent colleges, there were 27 colleges affiliated to the Sambalpur University, of which 23 were Arts, Science and Commerce Colleges, two teacher training colleges, one medical college and one engineering college. The total enrolment of these colleges was 12,465 students. There are 9 postgraduate departments in the University with an enrolment of 383 students. The total enrolment of students belonging to Scheduled Castes and Scheduled Tribes was 328, that too at the undergraduate level. This region is both economically and educationally backward. Agriculture is in a backward state and per capita income is quite low. The enrolment at the higher level is less than 1%. It is, however, very rich in forest wealth and mineral resources. In recent years several small and big industries have been set up around the University campus. The construction of Hirakund Dam has provided further fillip to number of vocation oriented courses as optionals in the affiliated colleges, e.g., fruit preservation, banking law and practice, book-keeping, and accountancy, dairy farming, poultry keeping, music, commercial arts, food technology, kitchen gardening, photography etc. etc. It has also introduced Internal Assessment, Central Valuation of Answer Scripts, objective-question, Setting and Semester System at postgraduate level.

/Industrialization. The Sambalpur university has introduced large

3.8 The jurisdiction of the Birmampur University extends over the districts of Koraput, Ganjam and Phulbani. The district of Koraput is predominantly a tribal district. 56.34% of the population comprises scheduled tribes. In 1973-74, 18 colleges were affiliated to the University of which 15 were Arts, Science and Commerce Colleges, one teacher training college, one law college which is now a constituent college and one medical college. The total enrolment of these colleges was 9716 students. There are eleven postgraduate departments in the University. The total enrolment of these departments is 348 students.

The University has introduced internal assessment at the degree level. The University also is contemplating to introduce further measures to reform the existing examination system in the light of the recommendations of the University Grants Commission.

4. Observations and Recommendations:

4.1 Courses:

The general standard of courses in these universities compares favourably with other universities. Since Utkal University is the oldest in the State the courses introduced in Sambalpur and Berhampur Universities are generally of the same pattern. In the field of physical sciences, the emphasis is on analytical rather than experimental studies. In the field of biological sciences, while Utkal and Berhampur Universities have separate departments of Botany and Zoology, Sambalpur University has an integrated department of Biological Sciences. But the courses in all these universities are more or less of the same pattern. The Utkal University has departments of Geography and Geology which the other two universities do not have. In the field of sociological and anthropological studies, the department of anthropology at the Utkal University has been doing good work. The department of sociology has been set up only recently. The other two universities do not have these departments. In the field of Social Sciences, the department of analytical and applied economics in the Utkal University is an old department but it has concentrated more on analytical studies. It has great potentialities and much can be expected of it. The department of economics at the Berhampur University has not achieved much while the department at Sambalpur University is doing real good work in the field of quantitative economics. The departments of psychology, history and oriya of the Utkal University deserve special mention as they have been doing excellent work in their fields. The other two universities also have departments of history and oriya but not much has been achieved by them. The Utkal University is conducting a postgraduate course in legal studies, which the other two universities do not have.

Every University wants to have as many teaching departments as it can. The Committee has stressed that it is neither advisable nor possible to have all the teaching departments in all the universities in the state.

Inter-disciplinary Programme:

4.2 There is ample scope for the restructuring of courses and for introducing inter-disciplinary and inter-departmental programmes. None of the universities appears to have given a thought to such programmes. The Committee has, however, indicated the direction for the formulation of such programmes. In the Utkal University a centre for regional studies with the collaboration of a number of departments has been recommended. In Berhampur University a research centre in marine sciences has been recommended by the Committee, while in Sambalpur University, the Committee has suggested the steps to be taken to establish a department of earth sciences in the Sixth Plan.

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Lecture load:

4.3 The number of periods allotted to lecture work in each paper is on the high side and needs immediate reduction at least by 50%.

4.4 Library facilities:

/temporarily

While the Utkal University has a separate building for housing the central library, the other two universities have/housed their libraries in big rooms. The Sambalpur University has in stock more than 33,000 books and 974 back volumes of journals. It is also subscribing to 167 journals. The library facilities at Berhampur University are very meagre. There are only 14,000 volumes in the university and it is subscribing to 105 journals. In these universities every department has a library and books purchased by the central library are transferred to these libraries. These departmental libraries possess reference as well as text-books. No separate text-book section is being maintained in these libraries. The Committee observed that the university libraries have been spending on the purchase of books and journals only those grants which are given by the University Grants Commission and not much has been spent out of the funds provided by the State Government. The Committee, therefore, recommends that, so far as, journals are concerned, subscription for the current journals may be paid out of the grants received from the State Government and back volumes of journals may be purchased out of the U.G.C. grants. The Committee has also recommended that at least 33% of the total grant given by the Commission for the purchase of books and journals may be spent on the purchase of text-books and the book grant may be divided between the departmental libraries and the central library on 50:50 basis.

4.5 Laboratory facilities:-

Generally speaking, the laboratories are satisfactorily equipped in all the universities. But, there is still need for strengthening them. The Committee has recommended substantial grants for the purchase of equipments and has also suggested that individual items costing more than Rs.30,000/- may be purchased by a Committee to be set up for the purpose. Such a procedure will not only enable the university to avoid duplication in the purchase of equipment but would also lead to an economical use of resources.

4.6 Quality and Research output of Teachers:-

Broadly speaking, the staff appointed in the various departments possesses requisite qualifications but most of the

teachers do not hold research degrees. The research output of the individual teachers is also not encouraging especially in Berhampur and Sambalpur Universities. The Committee, has, therefore, recommended that the periods allotted for lecture work should be cut down so that the teachers may get some time for research and the students may also get time for consulting the library and for attending tutorials and seminars.

4.7 Student Amenities:

The amenities provided for the students residing at the campus are inadequate in almost all the universities of the State. Additional hostel accommodation is to be provided, health care facilities are to be strengthened, playgrounds have to be developed, canteen facilities are to be provided and a small functional market in Berhampur and Sambalpur Universities has to be provided, so as to develop a corporate life in the campuses. The Committee has recommended substantial grants for these purposes.

5. Meeting with the Chancellor & Education Minister:

5.1 The Committee also met the Chancellor and the Education Minister of the State. When the Committee was visiting the Utkal University, the Chancellor invited the members to tea. On its return from Berhampur University on 25th January, the Committee had a brief meeting with the Education Minister. During these meetings two or three points were prominently mentioned: (a) since the percentage of literacy in the State is very low, the main objective of the Government is to raise this percentage as much as possible during the Fifth Plan period; (b) since the resources of the State Government are very much limited and the universities in this State have not received adequate grants during previous years and have a huge spill-over and are still in the early stage of development their requirements may be considered sympathetically and the allocation may be raised considerably; (c) the spill-over amount from the Fourth to the Fifth Plan may not be treated as a first charge on the Fifth Plan allocation; and (d) the State Government is considering the proposal for granting autonomy to Ravenshaw College, Cuttack.

5.2 It was, however, explained to the Education Minister that by frequently increasing the intake of the postgraduate departments, the percentage of literacy cannot be raised in the State and, therefore, more primary, secondary and high schools will have to be opened. Not only that, emphasis will have to be given to the introduction of vocation-oriented courses rather than to the introduction of theoretical courses. It was also mentioned that to cut down the cost of examination and to make the evaluation and assessment more objective, reforms in the system of examination will have to be introduced and emphasis will have to be given on

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internal assessment. It was also pointed out to him that the State Government should set up a planning and coordinating cell at the highest level in the State to coordinate and integrate the development programmes of the universities in the State. This cell may have a representative of the P.W.D., a nominee of the Chancellor, Vice-Chancellors of all the three universities, the Education Minister of the State, the Education Secretary and a representative of the University Grants Commission. The establishment of such a cell will set in motion the process of inter-university cooperation in the State. Similarly, at the university level, there may be a planning and coordinating committee which may undertake a periodical review of the activities of the university and evaluate progress of all the projects and schemes approved by the University Grants Commission and the State Government. Periodical evaluation of the progress of the programmes would help the universities in having an up-to-date knowledge of the implementation of various schemes and enable them to modify and make adjustments wherever necessary.

6. The State Government nominated Shri D.D. Jena, Deputy Director of Public Instruction to work on the Committee. He visited all the three universities and gave valuable assistance to the Committee from time to time.

7. The Committee records its thanks to the State Government, the University authorities, teachers, students and administrative staff for the cooperation extended to the Committee during their work at these universities.



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UNIVERSITY GRANTS COMMISSION

P A R T - II

Report of the Visiting Committee appointed by the University Grants Commission to assess the development requirements of the Utkal University for the Fifth Five Year Plan period.

The University Grants Commission appointed a Committee to assess the development requirements of Utkal University for the Fifth Five Year plan period.

2. The Committee visited the University on 17-18th January, 1975. It had preliminary discussions with the Administrator, the Registrar and other officers of the University on the 17th January, 1975. Thereafter, the members of the Committee discussed in two groups the Fifth Plan proposals of the various departments with the concerned staff. The Committee also had a chance to discuss some academic issues and the general Fifth plan programmes of the University with the Heads of the Departments separately. It also met students and teachers representatives and visited the Ravenshaw College, Cuttack. The Committee also visited the buildings constructed with the assistance of the Commission during the Fourth Five Year Plan period and earlier as well as those constructed with the assistance of the State Government. In the final round of discussions with the Administrator, the Committee had an overall picture of the continuing schemes and the priorities indicated by the University in its Fifth Plan proposals. The report of the Committee follows:-

3. Basic Facts and Figures:- The Utkal University was established in 1943. It continued as a purely affiliating University for about 15 years and even when it assumed teaching functions, not much development took place until it was shifted in 1962 to its present campus at Vani Vihar, Bhubaneswar.

3.1 The University introduced some postgraduate courses from 1957, although the departments had to be located at Ravenshaw College, Cuttack, which was and continues to be the largest and oldest colleges in the State, providing facilities for postgraduate teaching in physics, Chemistry, Mathematics, English, Economics, Oriya etc. along with the undergraduate courses. At present, the following post-graduate teaching departments (year of establishment indicated against each) are being run under the direct management of the University:

<u>Department:</u>	<u>Year of Establishment:</u>
1. Geology	1954
2. Analytical & Applied Economics	1956
3. Sanskrit	1957
4. Philosophy	1957
5. Psychology	1958
6. Anthropology	1958
7. Statistics	<del>1958</del>
8. Political Science	1958
9. History	1959
10. Zoology	1959
11. Commerce	1960
12. Mathematics	1962
13. Chemistry	1966
14. Physics	1967
15. English	1967
16. Botany	1969
17. Oriya	1969
18. Geography	1969
19. Sociology	1970
20. Law	1970
21. Labour Welfare	1973

3.2 The department of geology is still located at Ravenshaw College, Cuttack. However, after the completion of the second science block, which is nearing completion, the geology department would be shifted to the main campus at Bhubaneswar.

3.3 In addition, the University has two constituent colleges, namely, M.S. Law College, Cuttack and the Evening College located at the B.J.B. College, Bhubaneswar under its direct management. During 1973-74, the enrolment in these two colleges was as given below:-

I.A.		B.A.		LL.B.		Total		Grand Total
M	W	M	W	M	W	M	W	=
512	-	512	-	2329	36	3553	36	3389

3.4 The University has at present 51 colleges affiliated to it. The total enrolment in these colleges during the year 1973-74 was 41,441 comprising 35316 boys and 6125 girls. A statement giving the break-down of the total enrolment in the University faculty-wise is given in Annexure-I.

3.5 The medium of instruction and examinations at all levels, in Arts, Science and Commerce subjects, is English.

3.6 Enrolment of Students:- The enrolment at various levels in different faculties during 1973-74 is given in (Annexure-II). Of 1446 students enrolled at the postgraduate level in 1973-74, 1184 were boys and 262 girls.

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3.7 During the period from 1968-69 to 1973-74, 59 candidates were awarded Ph.D. degree in the Faculty of Science and 31 candidates in the Faculty of Arts. The break-down of these figures is given below:-

<u>Year</u>	<u>Arts</u>	<u>Science</u>	<u>Total</u>
1968-69	4	5	9
1969-70	4	9	13
1970-71	1	-	1
1971-72	7	23	30
1972-73	14	13	27
1973-74	9	1	10

3.8 Teaching Staff:- As stated earlier, the University has at present 21 postgraduate teaching departments. The strength of the teaching staff in the departments is as under:-

1. Geology	6
2. Analytical & Applied Economics	8
3. Sanskrit	5
4. Philosophy	7
5. Psychology	11
6. Anthropology	6
7. Statistics	5
8. Political Science	7
9. History	7
10. Zoology	7
11. Commerce	5
12. Mathematics	5
13. Chemistry	6
14. Physics	6
15. English	4
16. Botany	6
17. Oriya	4
18. Geography	4
19. Sociology	2
20. Law	4
21. Labour Welfare	2

During the last Plan period the University Grants Commission sanctioned 53 teaching posts (8 Professors, 14 Readers and 31 Lecturers). The break-down of the posts sanctioned and of those filled up is given below:-

<u>Department</u> :	<u>Posts sanctioned</u>			<u>Posts filled up</u>		
	<u>Prof.</u>	<u>Reader</u>	<u>Lect.</u>	<u>Prof.</u>	<u>Reader</u>	<u>Lect.</u>
1. Mathematics	1	2	2	1	2	2
2. Physics	-	2	3	-	2	3
3. Chemistry	1	2	3	1	2	3
4. Botany	1	2	3	1	2	3
5. Geography	1	1	2	1	1	2

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6.	English	1	-	2	1	-	2
7.	Oriya	1	-	2	1	1	2
8.	Sociology and Social Welfare	1*	1	2	-	1	2
9.	Languages	-	-	3	-	-	3
10.	Political Science	-	-	1	-	-	1
11.	Psychology	-	-	2	-	-	2
12.	Analytical and Applied Economics	-	1*	1	-	-	1
13.	Commerce	-	1*	-	-	-	-
14.	Sanskrit	-	-	1	-	-	1
15.	History	-	-	1	-	-	1
16.	Philosophy	-	-	1	-	-	1
17.	Law (LL.M.)	1	1*	2	-	-	2
Total:-		8	14	31	7	11	31

\* Not filled up

The increase in the number of teachers during the period from 1966-67 to 1973-74 is given in Annexure -III.

3.9 Appointment of Teacher: The appointment of teachers is made by advertisement in All India papers and through selection Committee as per Act and Statutes of the University. There is no provision for filling up posts by promotion.

3.10 Workload of Teachers:- Broadly speaking, four periods each of 55 minutes are devoted to each paper for lecture work and a similar number of periods is allowed for practical work, wherever required. The general pattern of workload per teacher per week is: Professor - 10 to 12 periods; Readers - 12 to 14 periods; and Lecturers - 12 to 16 periods. In Sociology both the teachers at present have a workload of 18 periods per week.

3.11 Income and Expenditure of the University from 1.4.1966 to 31.3.1974:

During the period from 1966-67 to 1973-74 the University had a total income of Rs.6.367 crores against which the University had incurred expenditure amounting to Rs.6.02 crores. The details of total income and expenditure are given below:-

Annual figures 1966-67 to 1973-74:

<u>Income</u>		<u>Expenditure:</u>
1. Maintenance grant from State Govt.	2,22,49,000	1. Salaries of teaching staff/non-teaching staff
2. Income from fees.	2,02,07,061	
Total:	4,24,56,061	

3. Development grants:

(a) UGC	1,09,78,292	2. Administrative	1,06,75,084
(b) State Govt.	92,28,120	3. Library books/journals.	23,32,801
(c) Other sources:	10,02,957	4. Equipment: (lab. only)	30,89,705
		5. Buildings	96,49,518
		6. Scholarships/Fellowships	4,46,574
		7. Other items.	2,13,88,568

4. Implementation of Fourth plan Schemes:- During the Fourth Five Year plan the University started the construction of administrative and other buildings, some of which have been completed and occupied while others are nearing completion. The Commission during the Fourth Five Year Plan assisted the University towards the establishment of the postgraduate departments of Mathematics, Physics, Chemistry, Botany, Geography, English, Oriya, Sociology and Labour Welfare and Law. Besides, the Commission also provided assistance for the construction of a boys' hostel (200 residents), girls' hostel (100 residents), student home, guest house and staff quarters for 5 Readers and 10 Lecturers. For the proposals accepted by the University Grants Commission the total provision was of Rs.1,64 lakhs of which the Commission's share was Rs.1,24 lakhs. The grants released upto the end of the Fourth plan period amounted to Rs.96 lakhs. The actual spill over to be carried to the Fifth plan is Rs.22.42 lakhs which would be the first charge on the Fifth Plan allocation of Rs.1.5 crores. A statement giving details about the schemes approved, grants released upto 31st March, 1974, grants paid thereafter and the spill over to the Fifth Plan is attached (Annexure-IV).

Regarding the buildings approved by the Commission during the Fourth Five Year plan the position is as under:-

- (a) Arts block (extension), installation of gas plant and Central Workshop were in progress.
- (b) Construction of Geology, Chemistry and Physics blocks, animal house for the department of Psychology, Anthropology and Statistics building, library building, staff quarters for lecturers and Readers, one girls' hostel, two boys' hostels and student home have been completed and occupied.
- (c) Library building for LL.M. course has not been taken up.

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5. Fifth plan proposals:- The University has submitted proposals to the University Grants Commission envisaging an outlay of Rs.3.31 crores spread over a period of 5 years beginning from the financial year 1974-75 with U.G.C. share as Rs.1.51 crores against an allocation of Rs.1.5 crores.

5.1 During the course of discussions with the Administrator and the Officers of the University, the following points were indicated:-

"The Administrator pointed out that the University was passing through a period of crisis and owing to certain developments, the Government of Orissa had to take an unusual step in appointing an Administrator to manage the affairs of the University, after dissolving all the academic and other bodies. He said that keeping in view the demand for starting postgraduate education in new subjects the University has proposed for the introduction of teaching in subjects like Meteorology, public Administration and Legal Studies. The University has put up a proposal for introduction of a special branch in public administration under the Postgraduate Department of Political Science. A proposal has also been put up to introduce a diploma course in library science.

In its Fifth plan proposals the University has included a provision for strengthening of the existing departments and their expansion. The proposal is also to increase the intake of each department for which additional staff will be required. This would enable the University to meet the growing demand from the students for more seats. For opening of new subjects and for strengthening the existing departments the University would require additional teaching accommodation, staff, books and equipment, strengthening of the University Press and equipment for the Central Workshop.

The cost of construction has during the last three years almost doubled and the University is indebted to the P.W.D. to the tune of Rs.60 lakhs.

6. General Observations and Recommendations:-

6.1 The Committee observed that the number of periods allotted to lecture work in each paper was on the highside and the students were hardly left with any time for self-study. It would be advisable if the lecture periods are reduced immediately, at least by 33 per cent, so as to allow the students some time for consulting the library and for attending tutorials and seminars.

6.2 The Committee observed that the University wants to increase the intake in each department by 100 per cent. It was felt that this expansion would not be in the interest of maintenance of standards of teaching and research in the University. The Committee, therefore, suggests that the intake of the departments may be increased only marginally, that too, in those departments where it does not require any increase in the existing physical facilities.

6.3 The University proposes to introduce special papers in each subject. The Committee felt that such a policy may not be generally adopted and only such special papers may be introduced which are relevant to the research activities of the department.

6.4 The Committee observed that the University has set up separate departments for sociology and labour welfare and wants to set up some new departments. The Committee would like to add that new departments may be established only after obtaining the concurrence of the State Government. The Committee would like to emphasise that it would not be possible to provide all departments in all the universities in the state. It would also like to stress upon the need of showing consideration, while making new admissions, to students of other universities, particularly State Universities in the departments which have already been started or which are to be set up during the Fifth Plan period.

6.5 The Committee noted that as yet no programme of inter-disciplinary research or studies has been undertaken by the University, nor there is a proposal of the type during the Fifth plan. It would, therefore be desirable if not only inter-departmental studies, but inter-university collaborative programmes are introduced, which would be beneficial not only to the State of Orissa and its people but also for the country as a whole.

6.6 For purchasing equipment, the Committee suggests that a purchase committee may be set up for purchasing items costing more than Rs.30,000/- in consultation with the different departments after pooling their resources. Individual items costing less than Rs.30,000/- may be purchased by the department concerned. The grant recommended for the purpose later in the report may also be used for meeting the cost of recommissioning the equipments lying idle in various departments.

6.7 The Committee found that the buildings especially the hostels were not being maintained properly. Neither the workmanship was good for the material used was of a good quality. The Committee suggests that the University should pay more attention to the maintenance of the buildings so that the inmates of the hostels are not put to inconvenience and discomfort.

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6.8 Regarding the purchase of books the Committee suggests that the book grant may be utilised between the departmental libraries and central library on 50:50 basis, and one third of the book grant may be used for purchasing text-books. Book grant should be spent in phases spreading it over the Fifth Five Year Plan period. While the back volumes of journals may be purchased out of the grant allocated by the Commission for the purchase of books and journals, current journals may be purchased by the University from the block grant provided by the State Government.

6.9 The Committee found that the students amenities were inadequate. Because of the distance of the University from Cuttack and Bhubaneswar towns, from where a large number of students come, the University has to be essentially a residential university. At present, the enrolment of the University is around 1600 and about 900 students are in residence in an accommodation which should normally be adequate for 700 students. Hostels are extremely overcrowded and messing facilities are, in particular, very poor. It is, therefore, essential to provide at least one additional hostel for 100 girls and another hostel for 200 boys so that 80 per cent of the existing intake of students are provided with residential accommodation.

The market which is used by students and staff is, at present, housed in huts where students eat under extremely unhygienic conditions.

The health centre facilities are fairly inadequate for students and staff residing at the campus. Facilities for medical care at the health centre have to be further extended and more beds are to be provided. Canteen facilities are to be further strengthened and extended so that clean meals may be served during lunch hour to the students. At the same time, steps to set up a small functional market at the campus may be taken up by the University authorities immediately so that facilities are made available to the students for making daily purchases and also to provide them with clean places where snacks may be served.

The playgrounds have to be developed so that the students may play games in the evening. The Committee was given to understand that the Commission's scheme for providing assistance to the universities and colleges for the development of sports facilities was under review. The Committee recommends that as soon as the scheme is finalised and the policy of the Commission for the Fifth plan is decided, the Utkal University may be assisted for providing facilities for various games and sports and for the development of playgrounds. The Commission may also consider the



proposal of the University for providing assistance for a gymnasium. The Committee was informed by the Administrator that the proposal of the University for a gymnasium was accepted by the Commission during the Fourth Five Year plan on a cent per cent basis. But, the University could not utilise the grant owing to a variety of factors. The University students are in dire need of a gymnasium and the Committee recommends that whenever funds are available, the Commission may give first preference to the Utkal University for the construction of a gymnasium.

6.10 With additional hostel buildings, the water supply position, which is hardly satisfactory has to be improved. Since the programme of making up deficiencies in general amenities will involve construction of buildings on a considerable scale the University may adopt economical ways of construction and may plan its buildings so that they are more functional and the quality of construction is ensured. It would be advisable if the University while planning its buildings consults and takes advice from organisations like CRRI and NBCC.

6.11 The Committee observed that some departments are short of space and scattered over in the same building or other buildings. There are other departments which have not developed to the extent of requiring the space already provided for them. The Committee, therefore, suggests that some departments mentioned later in the report may be provided with additional space so that a more rational use of the existing space is made. By way of illustration, in one of the science departments the Committee found that there was a store room on the first floor and a separate room for the store-keeper, and other rooms for technical assistant and laboratory assistant on the second floor. This sort of arrangement does not, obviously, justify the present allocation of space to various departments. The Committee, would, therefore, like to emphasize that while constructing buildings in future the university should look into the rationale of the existing use of space by different departments. It may also be added that mathematics department should find a place in the new arts block. The provision of furniture in a number of departments is not adequate and the laboratories are not adequately furnished.

6.12 The Committee would also add that the additional teaching and technical posts mentioned later in the report are being recommended on the specific condition that w.e.f. the date Commission's assistance ceases i.e. from 1.4.1979, there will be maintained by the State Government and that at no stage the number of teaching and technical staff strength would be less than that existing on 1.4.1974 plus

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the additional posts recommended now. If this happens, the Committee recommends that in the Sixth plan the Commission may take appropriate steps to ensure that this is not repeated.

6.13 The Committee observed that the social and cultural life at the campus was quite dull. No significant cultural activities are being organised by the students or teachers at the campus.

7. For strengthening the existing departments and for setting up new departments, the requirements of the individual departments are discussed in the following paragraphs:-

HUMANITIES:

7.1. Department of Commerce: The present intake of the department is 48 students in M.Com. (previous) and 48 students in M.Com. (Final). The sanctioned strength of teachers in the department is six, but five teachers (1 Professor, 1 Reader and 3 Lecturers) are in position. The department has a vacancy for a Readership which remains to be filled. One teacher in the department possesses research qualifications. The department has not produced any Ph.D. so far. 54 papers in Indian journals in addition to one text-book have been published by the department. The department specialises in business administration, personnel management and accounting.

The department did not convey the idea of being actively engaged in new or imaginative programmes of teaching and its research activities are very limited. The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 2 Lecturers.
- (2) Books and Journals: Rs. 40,000/-.
- (3) Equipment: Rs. 25,000/-.
- (4) Furniture: Rs. 5,000/-.

7.2 Department of English: The present intake of the department is 64 students in M.A. (Previous) and the same number of students in M.A. (Final). There are four teachers (1 Professor, 1 Reader and 2 Lecturers) in the department and one teacher holds research qualifications. The department has produced so far 7 Ph.Ds. and has published 34 papers in Indian journals.

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The Committee suggests that the department's language teaching and translation programme may be strengthened and expansion in other directions may be kept limited for the time being. The Committee recommends that the following facilities may be provided to the department:-

- (1) Teaching Staff: 1 Reader (Linguistics) and 1 Lecturer.
- (2) Books and journals: Rs.75,000/-.
- (3) Equipment: Rs.45,000/-.
- (4) Furniture: Rs.10,000/-.

7.3 Department of History:- The present intake of the department is 128 students in M.A. (Previous) and the same number of students in M.A. (Final). There are seven teachers (1 Professor, 2 Readers and 4 Lecturers) in the department, of whom three teachers possess research qualifications. Four candidates have been awarded ph.D degree so far. The department has published 64 papers in Indian journals and four papers in foreign journals in addition to 10 standard books.

The major areas of specialisation in the department are:- (i) Modern Indian History and (ii) Ancient Indian History. The department has so far completed three research projects, viz., (i) Survey of Temples, Monuments and Antiquities of Orissa; (ii) Cultural History of Orissa and (iii) Freedom Struggle in Orissa. Two UGC Junior Research Fellowships are available in the department.

This is a fairly strong department in terms of both teaching and research. Some new areas of teaching and research are required to be opened up, particularly in view of the possibilities of exploring regional history. The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Professor (with specialisation in Ancient Indian History) and 1 Lecturer.
- (2) Books and journals: Rs.50,000/-.
- (3) Equipment: Rs.30,000/-.
- (4) Furniture: Rs.25,000/-.
- (5) Archivist - 1 (may be shared with the Department of Oriya).

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7.4 Department of Law:- The postgraduate department of law is at present located in the Law College at Cuttack. The present intake of the department is 8 students. The department has four teachers (1 Professor and 3 Lecturers) of whom one is on a part-time basis. This is the only department in the State where postgraduate training is given in Law. The Committee noted that the library building sanctioned by the UGC during the Fourth plan could not be taken up by the University during that plan period. The Committee, therefore, recommends that the sanction may now be revived and the university may be assisted now for constructing that building in the Fifth plan on the prescribed sharing basis. The Commission's contribution on this account will be Rs.1.5 lakhs. The Committee recommends that the following facilities may also be provided to the department:-

- (1) Teaching Staff: 1 Reader
- (2) Books and Journals: Rs. 50,000/--
- (3) Equipment: Rs. 5,000/--
- (4) Furniture: Rs. 10,000/--

7.5 Department of Oriya:- The present intake of the department is 40 students in M.A. (Previous) and the same number of students in M.A. (Final). There are four teachers (1 Professor, 1 Reader and 2 Lecturers) in the department, of whom three teachers possess research qualifications. The department has produced two ph.D's. so far and has published 205 papers in Indian journals in addition to 19 books. The department has one camera and taperecorder whose value is around Rs.2,000/--. One Research Scholarship and one Junior Research Fellowship from the University Grants Commission are available to the department.

This department seems to be doing good work without much support. The department specialises in manuscript survey and editing; compilation of history of Oriya literature; History of modern Oriya literature and Oriya Physiology. The Committee suggests that its activities may be extended and linked with those of the departments of History and Anthropology. Special assistance may be given to it for the collection, preservation and classification of the palm leaf manuscripts.

The department has a separate section for palm leaf manuscripts. It has published a descriptive catalogue of manuscripts pertaining to Oriya language, literature and culture. It has been able to collect nearly 500 manuscripts during the period 1969-74. The department has some valuable manuscripts on records which require to be immediately photographed, without which the manuscripts are likely to be destroyed. The total number of manuscripts in the department is 2570 and the number of paper copied manuscripts is 345.

The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Reader & 1 Lecturer
- (2) Books and journals: Rs. 50,000/-.
- (3) Collection and preservation of manuscripts: Rs. 25,000/-.
- (4) photographic and other equipment: Rs. 20,000/-.
- (5) Furniture: Rs. 10,000/-.

7.6 Department of Psychology:- The present intake of the department is 48 students in M.A. (Previous) and 48 students in M.A. (Final). There are 11 teachers (2 Professors, 2 Readers, and 7 Lecturers) in the department, of whom three hold research qualifications. One of the Professors is yet to join and two lecturers are on study leave abroad. The department has produced two Ph.Ds. so far, and has published 57 papers in Indian Journals and 20 papers in foreign journals in addition to 15 books.

This is a fairly strong department with a good staff position, good accommodation and well equipped laboratory specially for work in educational animal and social psychology. It also has some facilities for work in comparative and physiological psychology. The research record of the existing staff is impressive. The department has completed significant work in socio-political attitudes and caste prejudices in India and there is an impressive record of publications on learning and personality. The department has undertaken so far 14 research projects financed by various agencies like NCERT, ICSSR, OISD, CSIR and UGC. The department has also organised a number of orientation courses, Research methodology courses, Refresher course, Summer Institutes and Conferences for the benefit of college teacher & students. The Committee was impressed with the work completed and also by the variety of research projects under investigation. The department of psychology at Utkal University could be developed into a good advanced centre of research and psychology. In the opinion of the Committee the department should in the next five years concentrate primarily in the areas of educational social and animal psychology. In view of this, the Committee recommends that the department may be helped in respect of the following:-

- (1). Teaching Staff: 1 Professor (animal psychology) and 1 Lecturer.
- (2) Books and Journals: Rs. 50,000/-.
- (3) Equipment: Rs. 80,000/-.

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7.7 Department of Philosophy:- The present intake of the department is 64 students in M.A. (Previous) and 64 in M.A. (Final). The department at present has 7 teachers (1 Professor, 2 Readers and 4 Lecturers). One of the lecturers is on study leave abroad. Of these teachers four possess research qualifications. The department has not produced any Ph.D. so far. It has published 99 papers in Indian journals in addition to nine books.

The department has so far completed four research schemes, two of which were assisted by the University Grants Commission. At present one research scholarship of Rs.250/- per month, funds for which are being provided by the Utkal University out of its research fund is available. Besides, one junior fellowship was also made available during 1973 by the University Grants Commission through the University.

This is mainly a teaching department with limited possibilities for research.

The Committee recommends that the following assistance be provided to the department:-

- (1) Teaching Staff: 2 Lecturers
- (2) Books and Journals Rs.20,000/-.
- (3) Furniture: Rs.10,000/-.

7.8 Department of Political Science:- The present intake of the department is 160 students in M.A. (previous) and the same number in M.A. (Final). There are 8 teachers (1 Professor, 2 Readers and 5 Lecturers) in the department, of whom five possess research qualifications. The department has produced two Ph.Ds. and has published 111 papers in Indian journals along with 18 text-books. The main fields of specialisation in the department are Political Thought and Constitutions.

This is a very large department in terms of student strength but its teaching and research programmes are very traditional. It should be discouraged from increasing the student strength any further. The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 2 Lecturers.
- (2) Books and Journals Rs.50,000/-.
- (3) Furniture: Rs.15,000/-.

7.9 Department of Analytical and Applied Economics:- The present intake of the department is 48 students in M.A. (Previous) and the same number in M.A. (Final). There are seven teachers (1 Professor, 1 Reader and 5 Lecturers) in the department, of whom two possess research qualifications. The department has produced so far five ph.Ds. and has published 104 papers in Indian and three papers in foreign journals in addition to 10 books. The department specialises in Agricultural Economics, Economics of Development and Demography.

The department has completed five research schemes, two of which were financed by the Planning Commission, two by the University Grants Commission and one by the Ministry of Health, Government of India. The department has one junior fellowship from the University Grants Commission and one research scholarship of Rs.250/- per month. The Committee noted with concern that one research fellowship of Rs.400/- per month and two scholarships of Rs.150/- per month instituted by the University and allotted to this department were lying vacant for want of suitable candidates. The Committee was also informed that one post of Reader was sanctioned by the Commission during the Fourth plan but owing to the non-availability of a suitable candidate a lecturer in Statistics was appointed.

This was a large department which has become depleted due to the setting up of two independent departments, viz., Sociology and Labour Welfare. The research output of the department is fairly satisfactory but its teaching and research programmes are rather traditional. The department should take new areas of research by taking advantage of the resources existing within it. The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Reader with specialisation in Demography and 2 Lecturers.
- (2) Books and Journals: Rs.50,000/-.
- (3) Furniture: Rs.10,000/-.

7.10 Department of Sanskrit:- The present intake of the department is 24 students in M.A. (Previous) and the same number in M.A. (Final). It has five teachers (1 Professor, 1 Reader and 3 Lecturers), of whom three possess research qualifications. The department has produced one Ph.D. so far and has published 27 papers in Indian journals in addition to four books. Two scholarships are available for students in the department, one from the Rashtriya Sanskrit Sansthan, of the value of Rs.200/- per month and the other from the general research scholarship fund of the Utkal University of the value of Rs.250/- per month.

This is a small department with limited research activities. The Committee recommends that the following assistance may be provided to the department:-

- (1) Books and Journals: Rs.20,000/-.
- (2) Furniture: Rs. 5,000/-.

7.11 Department of Sociology:- The present intake of the department is 16 students in M.A. (Previous) and 16 in M.A. (Final). The department has two teachers (1 Professor and 1 Lecturer), of whom one possesses research qualifications. It is a newly established department and the professor has joined recently. The lecturer in the department is working for his Ph.D.

During the Fourth Five Year Plan there was a combined department of Economics, Sociology and Labour Welfare. Later, the Utkal University decided to bifurcate this department into three departments, viz., Department of Analytical and Applied Economics, Department of Sociology and that of Labour Welfare. During the next few years the department can only hope to provide minimum facilities of a post-graduate department and can think of extending its academic programmes only after it has established itself. The Committee would, however, like to emphasise that in the purchase of books duplication with the departments of Labour Welfare and of Anthropology should be avoided as far as possible. The Committee, therefore, recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Reader and 1 Lecturer.
- (2) Books and Journals: Rs.1.00 lakh.
- (3) Furniture: Rs.20,000/-.

7.12 Department of Labour Welfare:- The department of Labour Welfare has been recently started after bifurcating the old department of Economics, Sociology and Labour Welfare. The present intake of the department is 16 students in M.A. (Previous) and the same number in M.A. (Final). There are two lecturers in the department. Obviously the department has not yet fully established itself. However, to make it a viable unit for postgraduate studies the Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Reader and 1 Lecturer.
- (2) Books and Journals: Rs.50,000/-.
- (3) Furniture: Rs.10,000/-.



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7.13 Department of Anthropology:- The present intake of the department is 16 students in M.A. (Previous) and the same number in M.A. (Final). There are six teachers (1 Professor, 2 Readers and 3 Lecturers) in the department, of whom five possess research qualifications and the remaining one is working for his Ph.D. Two candidates have completed their Ph.D. under the Professor and Head of the Department. The department has so far published 61 papers in Indian journals and 16 papers in foreign journals, in addition to three text-books on Social Anthropology. The department specialises in: (i) Physical Anthropology; and (ii) Social Anthropology.

The department has a museum attached to it which has pre-historic collections. The space being short, improvised arrangements have been made for keeping the collections. The total value of the equipments possessed by the department would be around Rs. 1.00 lakh. Some of these equipments are lying out of order due to the non-availability of spare parts. These equipments are: (1) Anthropometer (4 pieces); (2) Boneclamp (1 piece); (3) Sliding Caliper (1 piece); (4) Diagraph (1 piece). All these equipments are Swiss made and need to be replaced totally.

The department is at present housed in a building which is also occupied by Statistics, Chemistry and Mathematics departments. This building has been constructed with the assistance of the Commission and it was sanctioned for the departments of Anthropology and Statistics. Due to paucity of space, the department is forced to hold theory classes in the Museum as well as in the laboratory hall and hold laboratory practicals in the class rooms. It has at present no room for holding seminars and for accommodating auxiliary technical staff and research scholars, some of whom come from foreign countries. This matter was discussed with the Administrator of the Utkal University who pointed out that as soon as the Science Block is completed the Chemistry and Mathematics departments would be shifted to that building and the present building would be allotted only to Anthropology and Statistics departments. He expressed the hope that by the end of May this year the Chemistry and Mathematics departments would be able to move to the new building. The Committee was satisfied that the requirements of the department in respect of additional accommodation would be met as soon as the departments of Chemistry and Mathematics are shifted to the Science Block which was nearing completion.

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The department has the potentiality to provide strong support for inter-disciplinary programmes, relating specially to tribal areas. It has also certain special requirements arising out of field work. The department wishes to give special attention to pre-historic archeology. The Committee recommends that the following assistance may be provided to the department:-

- (1) Staff: 1 Reader (preferably with specialisation in archeology) and 2 Lecturers.
- (2) Books and journals: Rs.50,000/-.
- (3) Equipment: Rs.1.00 lakh
- (4) Vehicle for field work: (Vehicle would be a sort of central service to be used also by the Deptts. of History and Oriya). Rs.50,000/-.
- (5) Furniture: Rs.10,000/-.

7:14 Department of Botany: The present enrolment in the department is 16 students in M.Sc. (previous) and 16 students in M.Sc. (Final). The staff strength of the department is 1 Professor, 2 Readers and 3 Lecturers. Of these the Professor, 2 Readers and one of the lecturers possess research qualifications. The department has not produced so far any ph.D. It has so far published 22 papers in Indian journals, in addition to three text-books on Botany.

Two Research Scholarships/Junior Fellowships from University Grants Commission, one from the CSIR and one from the University are available to the department. The total value of the equipments available in the department is around Rs.3.60 lakhs. No equipment is lying idle. The department has not fabricated any equipment so far.

Research work is in progress in Microbiology, Plant Physiology and Cytogenetics. The course work with M.Sc. students is satisfactory and the research work is also commensurate with the facilities available. The department publishes a Mimeographed journal entitled "parijatak" and holds regular seminars. The Committee recommends that the following facilities may be provided to the department:-

- (1) Teaching Staff: 1 Reader and 1 Lecturer
- (2) Equipment: Rs.2.50 lakhs (including temperature controlling of one room)
- (3) Museum: Rs.20,000/-.

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- (4) Herbarium: Rs. 10,000/-
- (5) Botanical Garden: Rs. 20,000/-
- (6) Fern House: Rs. 20,000/-
- (7) Field Trips: Rs. 20,000/-
- (8) Books and Journals: Rs. 75,000/-
- (9) Furniture: Rs. 10,000/-
- (10) One lecture theatre (measuring 1200 sq. ft.) with furniture and fittings: Rs. 50,000/-

7.15 Department of Chemistry: During the current academic session the department has on rolls 12 students in M.Sc. (Previous) and 12 students in M.Sc. (Final). This is one of the best science departments in the University. All the six teachers (1 Professor, 2 Readers and 3 Lecturers) possess research degree. All the teachers are highly experienced. The department has so far published 119 papers in Indian Journals and 90 papers in foreign journals in addition to 64 books. It has also produced 15 Ph.Ds. The Head of the Department alone has produced 12 Ph.Ds. and has published 57 papers in Indian Journals and 50 papers in foreign journals, in addition to 39 books. The workload of all the teachers is fairly heavy.

11 Research scholars are working in the department of whom two fellowships, one senior and one junior have been awarded direct by the University Grants Commission the other six have been awarded by the Commission through the University and three junior fellowships have been awarded by the CSIR. The total value of equipments possessed by the department has been estimated around Rs. 2.00 lakhs. We recommend that the following assistance may be provided to the department:

- (1) Teaching Staff: 1 Reader
- (2) Equipments: Infrared Spectrometer; apparatus and magnetic appliances: Rs. 2.75 lakhs (including foreign exchange component of Rs. 1,27,500/-)
- (3) Books and Journals: Rs. 75,000/-
- (4) Furniture: Rs. 20,000/-

7.16 Department of Geology: The department of Geology of the Utkal University is located at present at Ravenshaw College, Cuttack and is responsible for teaching both at Hons. and M.Sc. levels. The present intake of the department is 16 students in M.Sc. (previous) and 16 students in M.Sc. (final). The teaching staff in the department comprises (1 Professor, 3 Readers and 2 Lecturers. All the teachers

possess research qualifications. The department has so far produced two Ph.Ds. It has published so far 38 research papers in Indian journals. At present the department has one research scholarship from the University Grants Commission and one junior fellowship from CSIR. The value of the equipments with the department is around Rs. 1.00 lakh. One magnetic is lying idle because of the non-availability of the DC current. The department has also fabricated a lamp for Microscopic studies for routine work.

The quality of courses seems to be at par with many Indian Universities, considered on the basis of the current syllabus. But the output and input of the students both at Hons. and postgraduate levels appear somewhat disproportionate in recent years.

The research output in the department is fairly satisfactory. The Committee was informed by the Administrator of the Utkal University, that they are planning to shift the postgraduate classes to Bhubaneswar Campus from the beginning of the next academic session for an integrated and interdisciplinary functioning of the various science departments. He also pointed out, that in the present building there is not enough space for housing the department and, therefore, the department will have to be accommodated, to start with, in the new science block. The Committee feels that for its proper functioning it would be necessary to provide additional accommodation for the department.

The equipment position in the department is quite good. But when there would be bifurcation of the undergraduate and postgraduate levels with the shifting of the University postgraduate department to Bhubaneswar Campus, the division of the equipments would create a number of problems which will have to be looked into very carefully by the University. Keeping in view the research programmes, which the department has in hand and also the future plans, the Committee feels that facilities may be provided to the department for acquiring X-ray Unit, DTA Unit, Frantz Isodynamic separator because the acquisition of these equipments would go on a long way towards the development of research activities and teaching of special papers. The department has a provision for specialisation at present in six branches, but the students can only offer two of these. Considering various aspects, the department could offer the study of special papers in two other branches immediately, with some additional teaching staff.

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The present position regarding books and journals is more or less satisfactory. But the department is in dire need of back volumes of journals and more copies of text-books. The Committee feels that the field work prescribed at present for the students is rather inadequate and therefore recommends that more sustained field work should be prescribed. Individual teachers should also be provided opportunities for going for field work in connection with their research projects as well as for guiding research. The Committee, therefore, recommends that the following assistance may be provided to the Geology department of the Utkal University:-

- (1) Teaching Staff: 2 Readers (one of these in III priority).
- (2) Books and journals: Rs.75,000/-.
- (3) Equipment: Rs.2.00 lakh.
- (4) Vehicle for field work (to be used by other science departments especially Geography also). Rs.50,000/-.
- (5) Field Trips: Rs.20,000/-.
- (6) Building: Rs.2.00 lakhs. (with furniture & fittings)
- (7) Furniture: Rs.10,000/-.

7.17 Department of Geography: The present intake of the department of Geography is 8 students in M.A. (Previous) and 8 students in M.A. (Final). There are four teachers (1 Professor, 1 Reader and 2 Lecturers) of whom two possess research qualifications. The department has so far produced two Ph.Ds. and published 86 papers in Indian journals besides 12 books. Of the 86 papers and 12 books, 59 papers and 10 books have been published by the Head of the Department.

Two scholarships/fellowships are available to the department - one from the University Grants Commission and the other from the University. The total value of the equipments available in the department is around Rs.1.5 lakhs. The department has two electric calculating machines which are out of order and can be repaired within the country at a cost of Rs.1,000/-.

The quality and contents of the courses appear to be up to the standard. The research output is fairly good. The department is also planning inter-disciplinary research project with other universities in the state. The department should be encouraged to develop the branch of meteorology. The University has a proposal to develop a department of meteorology during the Fifth Plan. The Committee feels

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that at present, for a variety of reasons, it would not be advisable to start a separate department of meteorology. However, the branch may be developed as a part of the present Geography department and the position may be reviewed at the end of the Fifth plan period and the proposal for the setting up a department of meteorology may be considered by the Commission during the Sixth plan.

The department definitely needs more equipments. It requires autophot A-43 equipment for enlargement and reproduction. This is an essential requirement, which when acquired may be put to joint use with other science departments.

The department now lies very much scattered over two buildings and even then the space is inadequate. It would be helpful if the department is provided with separate consolidated accommodation immediately, after readjustment and reallocation of the present building accommodation between various departments.

Field work taken by the department is satisfactory but it needs to be intensified.

In view of the above the Committee recommends that the following assistance may be provided to the Geography department of the Utkal University:-

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|-------------------------|--|
| (1) Teaching Staff:     | 1 Reader (preferably with specialisation in meteorology) & one Lecturer. |
| (2) Books and Journals: | Rs. 50,000/-.  |
| (3) Equipment:          | Rs. 75,000/-.  |
| (4) Field Trips:        | Rs. 20,000/-.  |
| (5) Furniture:          | Rs. 10,000/-.  |

7.18 Department of Mathematics:- The present intake of the department is 48 students in M.Sc. (Previous) and 42 students in M.Sc. (Final). There are five teachers (1 Professor, 2 Readers and 2 Lecturers), of whom one Reader is on deputation as a special officer, correspondence courses in the Utkal University and his work is being looked after by the research scholars. The Committee felt that such an arrangement is certainly not in the best interests of the department and must be dispensed with immediately. Four of the five teachers possess research qualifications. The department has so far produced 6 ph.Ds. (five under the Head of the Department) and has published 94 papers in Indian journals (60 by the Head of the Department), in addition to 12 books.

The main areas of specialisation of the department are Fluid Dynamics and complex variables. The department has at present one research scholarship from the CSIR, three junior research fellowships from the University Grants Commission and three research scholarships from the University's general research fund. The equipment available with the department is valued at Rs.24,000/-. The department wants to provide facilities for teaching and research in the field of Astronomy and the Committee feels that since in no other university of Orissa this subject has been introduced at the postgraduate level, facilities may be provided for strengthening the department in this field. The Committee, therefore, recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: 1 Reader (with specialisation in astronomy).
- (2) Books and journals: Rs.25,000/-.
- (3) Equipment: Rs.25,000/-.
- (4) Astronomical Telescope with high magnifying power: Rs.50,000/-.
- (5) Furniture: Rs.10,000/-.

7.19 Department of Physics:- The intake of the department is 16 students in M.Sc. (Previous) and the same number in M.Sc. (Final). There are six teachers (1 Professor, 2 Readers and 3 Lecturers), four of whom possess research qualifications. The major areas of specialisation in the department are (i) Solid State physics; (ii) Particle physics and (iii) Ultrasonics. The department has so far produced 5 Ph.Ds. So far, the teachers in the department have published 45 papers in Indian journals and 24 papers in foreign journals.

There is a workshop attached to the department. The main machines available in the workshop are Lathe All-cut Machine electric drill machine, electric grinding machine, and distilled water plant. The workshop is being run with the assistance of the persons of the department and three other technical hands.

The department also has some expensive equipments like IBM-1130 computing system, X-ray, R-ray spectrometer B-ray spectrometer, Neutron hodozer. The computing facilities on the IBM-1130 are being utilised by the research workers of other institutions outside the jurisdiction of the Utkal University. The standard of research in the department is fairly high and the research output during the last five years is satisfactory. The department wants to introduce a special paper on "Nuclear and Particle physics" during the Fifth plan. It has also a programme to introduce some inter-disciplinary specialisations e.g.

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(1) Biophysics with Botany; (ii) Meteorology with Geography; (iii) Oceanography with Zoology. It may be advisable for the Department to strengthen experimental physics through either solid state or electronics specializations. This will help improve laboratory work and over all training of students. The Department should also develop concrete programmes of interaction with the Theoretical Physics Centre at Bhubaneswar.

Two research scholarships are available to the department one from the University Grants Commission and the other from the University's general research fund. The value of the equipments available with the department is estimated to be Rs.1.76 lakhs. excluding the computer and workshop facility. The Committee recommends that the following assistance be provided to the department:-

- (1) Teaching Staff:- 1 Reader (with specialisation in electronics) and 1 Lecturer.
- (2) Books and journals: Rs.75,000/-.
- (3) Equipment: Rs.3.00 lakh.
- (4) Furniture: Rs.10,000/-.

7.20 Department of Statistics:- The department of Statistics has a student strength of 32 in M.Sc. (Previous) and 32 in M.Sc. (Final). There are five teachers (1 Professor 1 Reader and 3 Lecturers), of whom two possess research qualifications. The department has not produced any Ph.D. so far. It has published 20 research papers in Indian journals in addition to seven books. One U.G.C. junior fellowship is available in the department. The total value of the equipment available in the department is approximately Rs.1.25 lakhs. Two Facit calculators and two Nisa electric calculators are lying out of order and the department requires Rs.1,000/- for their repair.

The major areas of specialisation in the department are Distribution Estimation, Statistical Inference, Combinatorial Analysis and Sampling methods. The Committee recommends that the following assistance may be provided to the Statistics department:-

- (1) Teaching Staff: 1 Reader
- (2) Books and journals: Rs.20,000/-.
- (3) Equipment: Rs.50,000/-.
- (4) Furniture: Rs.10,000/-.

7.21 Department of Zoology:- The intake of the department is 24 students in M.Sc. (Previous) and the same number in M.Sc. (Final). There are seven teachers (1 Professor, 1 Reader and 5 Lecturers), of whom six possess research qualifications. The department specialises in Entomology



and Cytogenetics. It has so far produced 2 Ph.Ds. and has published 126 research papers in Indian journals and 21 papers in foreign journals in addition to three books in Oriya language in Physics.

The department has only one Research Scholarship out of the University's general research fund. The total value of the equipment available in the department is Rs.2.5 lakhs. The equipment lying idle in the department are:- (i) penaphot; (ii) Exposure meter; (iii) Flash Electronics; (iv) Kymograph; (v) Water bath; Student Microscopes-II; (vi) Weighing balance-2; (vii) Research Microscopes-4. The repairing cost of these equipments would be about Rs.3,000/-. The department may be provided assistance as under:-

- (1) Teaching Staff: 1 Reader (with specialisation in Embryology) and (1 Lecturer in II priority with specialisation in comparative Anatomy or Endocrinology).
- (2) Books and journals: Rs.75,000/-.
- (3) Equipments: Rs.2.50 lakhs.
- (4) Furniture: Rs.10,000/-.
- (5) Building: (One lecture theatre may be provided for accommodating 120 students by readjustment of the existing space.
- (6) Museum: Rs.20,000/- (furniture and accessories).
- (7) Animal House and Insectry: Rs.50,000/- (building with fitting and fixtures).
- (8) Field Trips: Rs.20,000/-
  - (i) Museum Keeper: (B.Sc. in Biological Science with diploma in Museology or M.Sc. in Museology).
  - (ii) Animal House and Insectry Keeper: (B.Sc. with Biological Science with knowledge of animal and insect breeding).
  - (iii) Museum Assistant -1.
  - (iv) Assistant for helping the Animal House and Insectry Keeper-1.
  - (v) Technical Assistant with knowledge of Taxidermy-1. (B.Sc. in Biological Sciences with training in Taxidermy)

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8. NEW DEPARTMENTS:

8.1 The University has proposal to establish departments of Meteorology, Library Science and Public Administration. The Committee is of the view that a special paper on Meteorology may be introduced as part of the M.A. course in Geography, since the conditions are not yet ripe for starting a separate department. Regarding the introduction of a diploma course in Library Science the Committee felt that despite the fact that Utkal University is the oldest University in the state, it would not be advisable, under the present conditions to start a diploma course in Library Science. The Central Library of the University is not yet properly organised and the University must, therefore, concentrate on the re-organisation of the University Library. Regarding the starting of a postgraduate course in Public Administration the Committee felt that for the present, Public Administration should continue as a part of the M.A. course in Political Science. The proposal, could, however, be considered during the Sixth Plan.

8.2. Centre of Regional Studies:- The Committee, however, felt that Utkal University has ample potentialities for starting a Centre of Regional Studies. Keeping in view the fact that this is a backward area with lot of tribal population, there is every justification for starting projects which may help the development of the people and the area. The department of Psychology has already taken up a number of research projects relating to the studies of the tribal people, e.g., "Study of Education Problems of Scheduled Castes/Tribes students (College) in Orissa", "Cognitive growth a function of socio-cultural stimulating environment", "Caste Cultural Deprivation and Cognitive Growth", "Low Socio-Economic status and progressive retardation in cognitive skills", "Cognitive growth of the disadvantaged children in the primary schools" etc. Similar studies in the socio-economic problems etc. could very well be undertaken by the departments of Economics, History, Oriya etc. The Science departments could very well study the fauna and flora and the Geography department could also collaborate in such programmes. The Committee, therefore, suggests that a Centre of Regional Studies may be set up at the Utkal University. It is suggested that a planning committee may be set up by the University with representation of relevant external experts including those from the Regional Research Laboratory Bhubaneswar the Anthropological Survey of India and State agencies. This committee should work out a programme of researches and studies with inter department collaboration. It should indicate the facilities needed for significant work in the field of development of regional material and human resources. The Commission may sanction Rs.25,000 for the initial planning work and give further

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support to the extent of Rs.10, lakhs when a detailed proposal for staff, equipment and other facilities and programmes is worked out. The University should indicate clearly how it proposes to manage and run the interdisciplinary Centre.

9. Central Library:- The Utkal University has a Central Library whose building has been constructed with the assistance of the University Grants Commission. The library has a stock of 1,23,000 books and it subscribes to nearly 678 journals in different subjects. The working hours of the library are from 9 A.M. to 9 P.M. except on Sundays and Holidays.

The library has a reading room space measuring 5438 sq. ft. and has a provision for 354 reading seats. There are 5 stack rooms, the area of which is 2470 sq.ft.

During the year 1973-74 the average number of books issued daily to students was 357 and of those issued to teachers was 60. The annual expenditure of the library during 1973-74 was Rs.2,45,000/- (recurring) and Rs.1,62,195/- (non-recurring).

The professional staff in the library consists of one Librarian and four Assistant Librarians. The Librarian, owing to certain unhappy developments has been made to retire, as mentioned by the Administrator, Utkal University. All the Assistant Librarians are qualified hands and possess diploma/bachelor's degree in library science.

The Committee recommends that a grant of Rs.10.00 lakhs for the central library for the purchase of books and journals covering both Arts and Science departments (Rs.6.00 lakhs and Rs.4.00 lakhs respectively) may be provided during the current plan period. The Committee further recommends that one micro-film reader at a cost of Rs.18,000/- along with the provision of air-conditioning of a room of the library building for keeping valuable manuscripts, rare books etc. at a cost of Rs.40,000/- may also be provided.

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1 A Committee was appointed by the Utkal University under the Chairmanship of Professor S. Bashiruddin to report on the functioning of the University Library and to suggest means for its improvement. This Committee had recommended immediate action in replacing the present "Chief Librarian" by an academically and technically well qualified, experienced and mature librarian if the university library is to function as such. It was in pursuance of this recommendation of the Committee that the action to remove the librarian was taken.

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Every department has a departmental/seminar library. The procedure for the purchase of books and journals, followed by the University is that the books are purchased by the University Librarian on the recommendation of the respective Heads of the Departments and then these books are transferred to the departmental libraries. These departmental libraries possess reference as well as text books and books are issued on daily basis to the students from these libraries. A statement indicating the number of books and journals available with each of the department is attached Annexure-V.

Year-wise expenditure on books and journals during the Fourth Plan period is given in Annexure VI.

10. Central Workshop: The Committee noted that the Commission during the Fourth Five Year plan had approved a provision of Rs.75,000/- with its share as Rs.71,163/- for the construction of a building for the central workshop and purchase of equipment. The Committee found that the workshop has not yet been adequately equipped. The Committee feels that the amount provided during the Fourth plan was only adequate for the building and purchase of some skeleton equipment. But, a workshop catering to the requirements of all the science departments must have at least essential equipments like precision lathe, grinding machines, glass blowing equipment, welding machines and other essential machines and tools for which a provision of Rs.1.00 lakh would be necessary. The Committee, therefore, recommends that the following assistance for the purchase of machinery and equipment and appointment of staff may be provided for the central workshop during the current plan period.

- (1) Machinery and Equipment: Rs.1.00 lakh.
- (2) Staff:
  - (i) Workshop Superintendent - 1.
  - (ii) Electrician or Electronics Mechanic - 1.
  - (iii) Glass-blower/Carpenter -1.

The workshop superintendent should be a graduate either in mechanical or electrical engineering with experience in instrumentation. He should be appointed in Lecturer's scale of pay. Mechanic, Glass-blower/Carpenter and Electrician could be appointed in Demonstrator's scale of pay. Non-technical staff like Helper, Cleaner, Mate etc. may be provided by the State Government. The University should make a concrete proposal regarding how it would be ensured that the workshop operates as a truly university facility rather than a departmental facility.

11. Student Amenities:- The Committee also met a representative group of students. They felt that the students could be involved by stages in running their welfare activities. The students stressed the lack of amenities like reading room facilities and lack of sufficient number of text-books. Since most of the students come from Bhubaneswar town which is quite a distance which is about 28 kilometers away from the University campus, they complained about lack of transport facilities and stressed that the Commission may provide assistance to the University for the purchase of at least two buses. While the Committee appreciates the difficulties faced by the students in commuting from Cuttack and Bhubaneswar towns to the University campus it expresses its inability to recommend any assistance in this connection because the University Grants Commission does not provide any financial help for the purpose. They also mentioned that no playground had been developed in the campus (this was also verified by the Committee). It is, therefore, suggested that the University may take immediate steps to provide these basic amenities to the students. For helping the students, at least 33 per cent of the book grant must be spent on the purchase of text-books.

11.1 Hostel: At present the enrolment of the University is around 1600 and about 900 students are in residence in an accommodation which is hardly adequate for 700 students. It was found that some of the single seated rooms in the Men's hostels were being used to accommodate two boarders leading to a situation which was most unsatisfactory from the academic as well as from the Hygienic point of view. Similarly, we found that in the Women's Hostel the situation was highly deplorable. In some of the rooms which are quite small in size and are meant for one boarder, three boarders were residing. In the common room of the hostel about 40 girls were putting up. The Committee, therefore, recommends that the University may be provided assistance for the construction of two Men's hostels each for 100 students in the first priority and another Men's hostel for 100 students in the second priority and one Women's hostel for 100 students in the first priority.

11.2 Health Centre:- The facilities provided at the existing health centre are fairly inadequate for students and staff residing at the campus. These facilities have to be further extended. The Committee was informed that the University was provided assistance by the Commission during the Third Five Year plan to the extent of Rs.25,000/- for building and Rs.25,000/- for equipment. Although the assistance of the Commission for a Health Centre on a bigger scale was available during the Fourth Five Year plan

the University could not avail of it. The Committee recommends that assistance for the extension of the building to the extent of Rs.25,000/- for beds, Rs.25,000/- for equipment Rs.50,000/- and for appointment of staff Rs.1.05 lakh may be provided on the usual sharing basis to the University for the extension of facilities at this Health Centre.

11.3 Students Canteen:- The Canteen facilities at the campus are far from satisfactory and need to be further strengthened. The Committee recommends that assistance may be provided for the construction of a big canteen so that students may be served clean meals during lunch hours.

12. Research Fellowships:- The Committee noted that the existing number of research fellowship available from all sources is far short of the number of candidates desirous of pursuing research. The Committee was informed that a large number of meritorious students who are interested in research are forced to take up jobs which neither suit their temperament nor qualifications. The Committee, therefore, recommends that a provision of Rs.6 lakhs may be made for providing 10 junior research fellowships which may be allocated to the various departments in accordance with their needs. Since these fellowships will be plan based these will have to be maintained, at the end of the Fifth plan, by the State Government and Commission's responsibility for their continuance would be over thereafter.

13. Teacher amenities:- The University has a teaching staff of 123 teachers - Professors -20, Readers -35 and Lecturers -68. At present 50% of the Professors, 40% of the Readers and 91% of the lecturers are residing at the campus in the accommodation provided by the University. Thus, 10 Professors, 21 Readers and 6 Lecturers are in need of residential accommodation who are at present residing either in Bhubaneswar town or in Cuttack.

Since the University has to be essentially a residential university, the Committee recommends that the university may be assisted to construct 8 professors' quarters, 20 readers' quarters and 15 lecturers' quarters during the current plan period.

14. General Facilities:- The Committee also recommends that the University may be assisted to set up a printing press at the campus. The Commission may provide assistance to the extent of Rs.2,00,000/- as Commission's share for the purpose. The Committee, however, suggests that since the establishment of a good press which can cope with the work of printing of examination papers and other materials required by a big institution like Utkal University would require a huge investment, the establishment of the press may be phased out in such a manner that in the first phase

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an investment of more than Rs.4 to 5 lakhs is not made. Further development and extension of the press may be taken up during the next plan period.

15. Financial Implications:- A summary of the financial implications (UGC share) of the Committee's recommendations (priority wise) along with the committed expenditure for the development of higher education and research in the faculties of arts and science at the Utkal University, Bhubaneswar is given below:-

Items	<u>Financial implications</u>		
	<u>Priorities</u>		
	I	II	III
	(figures in lakhs of rupees)		
(a) Spill Over		22.42	
(b) Basic grant for books		4.00	
(c) Basic grant for equipments.		5.00	
(d) New Allocations:			
(i) Books	10.57	5.41	5.27
(ii) Equipments	9.60	4.74	4.64
(iii) Buildings	14.88	11.75	10.88
(iv) Others/Misc.	4.65	-	-
(v) Fellowships		3.00	3.00
(vi) Recurring:	9.55	5.52	2.89
(vii) Centre for Regional Studies.	-	5.00	5.00
<b>Total:-</b>	<b>80.67</b>	<b>35.42</b>	<b>31.68</b>

Grand Total : - Rs.147.77 lakhs.  
(a-b-c-d)

The item-wise break-down of non-recurring expenditure involved in the implementation of the recommendations of the Committee is given in Annexure-VII

The item-wise break-down of the additional posts recommended in the report is given in Annexure-VIII.

The total allocation, thus, recommended amounts to Rs.147.77 lakhs (UGC share) against the tentative allocation of Rs.150 lakhs. It may be pointed out that out of this

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allocation an amount of Rs.22.42 lakhs is payable to the University in respect of schemes and projects which are continuing from the earlier plans. This also includes an amount of Rs.9.00 lakhs approved during the current Plan period for the purchase of library books and science equipments.

The Committee places on record its thanks to the Administrator, Members of the Faculty and the University staff for providing all facilities to the Committee during their visit to the University.

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UTKAL UNIVERSITY:

ANNEXURE-I

ENROLMENT OF STUDENTS IN AFFILIATED COLLEGES DURING 1973-74

ARTS:

	I.A.		B.A.		M.A.	
	M	W	M	W	M	W
1. University P.G. Department:	-	-	-	-	796	204
2. Constituent Colleges:	512	-	512	-	-	-
3. Affiliated Colleges:	13382	2689	7414	1361	380	68
Total:	13894	2689	7926	1361	1176	272

SCIENCE:

	I.Sc.		B.Sc.		M.Sc.	
	M	W	M	W	M	W
1. University P.G. Department:	-	-	-	-	317	57
2. Constituent Colleges:	-	-	-	-	-	-
3. Affiliated Colleges:	7414	1031	2400	484	307	27
Total:	7414	1031	2400	484	524	84

COMMERCE:

	I.Com.		B.Com.		M.Com.		DIZ & DMA	
	M	W	M	W	M	W	M	W
1. University P.G. Department:	-	-	-	-	63	1	-	-
2. Constituent Colleges:	-	-	-	-	-	-	-	-
3. Affiliated Colleges:	1380	4	1224	4	63	1	71	-
Total:	1380	4	1224	4	63	1	71	-

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LAW:

	LL.B.		LL.M.	
	M	W	M	W
1. University P.G. Department:	-	-	8	-
2. Constituent Colleges:	2529	36	-	-
3. Affiliated Colleges:	-	-	-	-
Total:	2529	36	8	-

MEDICINE:

	MBBS		BAMS	
	M	W	M	W
1. University P.G. Department:	-	-	-	-
2. Constituent Colleges:	-	-	-	-
3. Affiliated Colleges:	518	130	118	22
Total:	518	130	118	22

EDUCATION:

	B.Ed.		M.Ed.	
	M	W	M	W
1. University P.G. Department:	-	-	-	-
2. Constituent Colleges:	-	-	-	-
3. Affiliated Colleges:	783	296	25	9
Total:	783	296	25	9

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	Total			Grand Total
	M	W		
1. University P.G. Department:	1184	262	=	1446
2. Constituent Colleges:	3353	36	=	3389
3. Affiliated Colleges:	35316	6125	=	41441
Total:	39853	6423	=	46276

ENROLMENT OF STUDENTS IN POSTGRADUATE TEACHING  
DEPARTMENTS OF THE UNIVERSITY DURING 1973-74:

S.N.	Postgraduate Departments:	Students		
		Men	Women	Total
1.	English	30	10	40
2.	History	200	37	237
3.	Oriya	31	16	47
4.	Philosophy	81	46	127
5.	Political Science	255	33	288
6.	Psychology	55	24	79
7.	R.E.S. & Applied Economics	86	13	99
8.	Sociology & L.W.	28	4	32
9.	Sanskrit	30	21	51
10.	Anthropology	28	18	46
11.	Botany	29	3	32
12.	Chemistry	21	3	24
13.	Geography	13	3	16
14.	Geology	36	2	38
15.	Mathematics	69	10	79
16.	Physics	29	3	32
17.	Statistics	56	4	60
18.	Zoology	36	11	47
19.	Commerce	63	1	64
20.	Law	8	-	8
Total:		1,184	262	1,446

TOTAL NUMBER OF TEACHERS DEPARTMENTWISE

As on 1.4.1966

As on 1.4.1974

Name of the Department:	Prof.	Reader	Lecturer	Total	Prof.	Reader	Lecturer	Total
1. Commerce	1	1	3	5	1	1	3	5
2. English	-	-	-	-	1	1	2	4
3. History	1	2	3	6	1	2	4	7
4. Law (LL.M.)	-	-	-	-	1	-	3	4
5. Oriya	-	-	-	-	1	1	2	4
6. Psychology	1	2	2	5	2	2	7	11
7. Philosophy	1	2	2	5	1	2	4	7
8. Rural Economics Sociology & Applied Economics.	1	1	3	5	1	2	5	8
9. Political Sc.	1	2	2	5	1	1	5	7
10. Sanskrit	1	1	2	4	1	1	3	5
11. Sociology & Labour Welfare	-	-	-	-	-	1	2	3
12. Anthropology	1	2	3	6	1	2	3	6
13. Botany	-	-	-	-	1	2	3	6
14. Chemistry	-	-	-	-	1	2	3	6
15. Geology	1	1	2	4	1	3	2	6
16. Geography	-	-	-	-	1	1	2	4
17. Mathematics	-	-	-	-	1	2	2	5
18. Physics	-	-	-	-	1	2	3	6
19. Statistics	1	1	3	5	1	1	3	5
20. Zoology	1	2	3	6	1	1	5	7
<b>Total</b>	<b>11</b>	<b>17</b>	<b>28</b>	<b>56</b>	<b>20</b>	<b>30</b>	<b>66</b>	<b>116</b>

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SPILL-OVER STATEMENT

UTKAL UNIVERSITY

ANNEXURE IV  
(Fig. in Rs.)

S.No.	Name of the Scheme	Total approved Cost.	UGC's Share	Amount paid upto 31.3.1974	Spill Over	Grants paid after 31.3.74	Remarks
1	2	3	4	5	6	7	8
1.	Construction of Arts Block.	18,88,000	12,59,000	-	12,59,000	1,50,000	
2.	Construction of 12 Lecturers quarters - Fourth & Fifth 'E' type block.	4,98,153	2,49,077	2,29,500	19,577	-	
3.	Construction of Zoology Building.	2,84,400	2,84,400	2,75,000	9,400	-	
4.	Construction of Library building for LL.M. Course.	2,71,824	1,81,216	-	-	-	Scheme could not be implemented.
5.	Construction of Chemistry Block.	4,81,100	4,81,100	4,75,000	6,100	6,100	
6.	Construction of extension to Physics Block	4,71,300	4,71,300	4,65,000	6,300	6,300	
7.	Construction of four Readers quarters.	5,17,600	2,58,800	50,000	2,08,800	45,000	
8.	Construction of Animal House for Postgraduate Department of Psychology.	25,000	25,000	10,000	15,000	5,000	
9.	Construction of building for the Department of Mathematics & Statistics including furniture.	4,00,000	2,53,786	2,46,667	7,119	-	
10.	Construction of Library building including furniture.	8,99,471	5,96,420	5,85,220	11,200	11,200	
11.	Construction of Women's hostel including furniture.	4,07,218	3,05,412	2,75,000	30,413	30,000	

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1.	2	3	4	5	6	7	8
12. Purchase & Installation of gas plant.	1,00,000	1,00,000	75,000	25,000	-	-	-
13. Salary for the existing teaching staff	75,613.65	75,613.65	75,613.65	-	-	-	-
14. Development of Teaching Staff.	17,029.15	17,029.15	17,029.15	-	-	-	-
15. Purchase of Science Equipment.	2,40,000	2,40,000	1,15,000	-	*	-	-
16. Purchase of books/journals for the Department of Mathematics.	1,00,000	1,00,000	92,000	-	*	-	-
17. Purchase of library books/journals for Science Departments.	6,37,500	6,37,500	6,18,500	-	*	-	-
18. Purchase of Science Equipment.	6,25,000	6,25,000	6,08,859	-	*	-	-
19. Purchase of library books/journals for Humanities Departments.	1,00,000	1,00,000	85,000	-	*	-	-
20. Construction of 198 seated boys hostel.	9,54,000	5,00,000	4,60,000	40,000	30,000	-	-
21. Purchase of furniture for Zoology Department.	48,200	48,200	40,000	8,200	8,200	-	-
22. Construction of Central Workshop.	75,000	71,163	40,000	31,163	-	-	-
23. Setting of employment-cum-Advisory Bureau	17,900	17,900	7,800	10,100	-	-	-
24. Purchase of equipment for Psychology.	45,000	45,000	32,000	13,000	-	-	-
25. Purchase of books for Humanities Departments.	2,00,000	2,00,000	1,40,000	-	*	-	-
26. Construction of Boys Hostel.	3,81,000	1,90,500	1,64,000	23,500	6,175	-	-
27. Purchase of library books & journals for Humanities Department.	2,95,000	2,95,000	2,49,000	-	*	-	-

\*The balance amount lapsed with the end of Fourth Plan.  
-do-  
-do-  
-do-  
-do-  
-do-

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1	2	3	4	5	6	7	8
28.	Purchase of books/ journals for LL.M. course.	40,000	40,000	15,000	-*	15,000	*The balance amount lapsed with the end of IV Plan.
29.	Purchase of departmental library books/journals.	2,35,000	2,35,000	1,95,000	-*	30,000	-do-
30.	Salaries of the teaching staff in Humanities Departments.	7,24,162.73	7,24,162.73	6,45,500.28	78,662.45	70,000	
31.	Salaries of the teaching staff in Science Departments.	13,30,458.69	13,30,458.69	12,99,000	31,458.69	31,458.69	
32.	Purchase of library books/journals.	50,000	50,000	-	-*	50,000	-do-
33.	100 seated Boy's Hostel	-	-	-	1,825	-	
34.	Establishment of Educat- ional Wing in the Post- graduate Department of Psychology.	1,06,100 (NR) 3,00,000 (R)	1,06,100 3,00,000	30,000 10,000	76,100 2,90,000	- -	
35.	Men's Hostel (old)	10,57,135	5,28,568	5,27,000	1,568	1,568	
36.	Arts Block (old)	12,01,965	8,01,310	7,97,000	4,310	4,310	
37.	Teaching Staff quarters	12,64,440	6,32,220	6,25,000	7,220	7,220	
38.	Salary of Teaching Staff in LL.M. Course.	23,459.18	23,459.18	-	23,459.18	23,459.18	
<b>Grand Total:-</b>		<b>1,63,88,029.30</b>	<b>123,99,696.40</b>	<b>95,74,689.08</b>	<b>22,41,475.32</b>	<b>5,30,990</b>	



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ANNEXURE-V

TOTAL NUMBER OF BOOKS AND JOURNALS  
DEPARTMENTWISE

S.No.	Department	No. of books	No. of journals	No. of Text-books
1.	Anthropology	1361	--	215
2.	Botany	1500	65	--
3.	Chemistry	1010	30	--
4.	Geology	2081	53	780
5.	Geography	--	--	--
6.	Mathematics	1000	300	411
7.	Physics	1263	29	47
8.	Statistics	650	--	--
9.	Zoology	1005	275	--
10.	Commerce		No Faculty	
11.	English	10603	2509	--
12.	History	1530	175	
13.	Law	--	--	--
14.	Oriya	8000	500	1450
15.	Psychology	300	30	500
16.	Philosophy	220	15	75% are Text-books
17.	Political Science	1307	--	--
18.	Applied Economics	1672	42	500
19.	Sanskrit	300	--	--
20.	Sociology	1000	--	--
21.	Labour Welfare	1200	--	--

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Annexure VI

YEARWISE EXPENDITURE ON BOOKS & JOURNALS  
DURING THE FOURTH PLAN PERIOD:

Name of the schemes (Plan)	1966-67	1967-68	1968-69
Departmental (Humanities)	--	--	5,924-51
Departmental (Science)	9,999-77	43,189-11	6,851-90
Basic General (Humanities)	--	--	--
Basic General (Science)	--	--	7,470-90
Basic Old (Humanities)	40,401-49	14,836-15	4,847-08
Basic Old (Science)	11,204-64	21,265-18	18,247-45
LL.M.	--	--	--
Total:-	61,605-90	79,290-44	43,341-84
Outside Plan	--	--	--
Back volumes (Humanities)	--	--	--
Back volumes (Science)	--	--	--
Additional	--	--	--
Grand Total:	61,605-90	79,290-44	43,341-84

Name of the Scheme (Plan)	1969-70	1970-71	1971-72
Departmental (Humanities)	43,865-68	25,313-25	23,393-85
Departmental (Science)	14,919-19	84,625-50	88,776-84
Basic General (Humanities)	25,035-67	22,487-12	9,716-09
Basic General (Science)	--	19,875-58	22,730-42

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Name of the Scheme (Plan)	1969-70	1970-71	1971-72
Basic Old (Humanities)	5,902-57	12,000-42	--
Basic Old (Science)	17,036-23	7,037-16	3,955-38
LL.M.	--	--	--
<b>Total:</b>	<b>1,06,759-34</b>	<b>1,71,337-03</b>	<b>1,48,572-58</b>
Outside Plan	--	--	--
Back volumes (Humanities)	--	48,620-91	9,729-59
Back volumes (Science)	--	74,866-92	32,570-44
Additional	--	--	--
<b>Total:</b>	--	<b>1,23,487-83</b>	<b>42,300-03</b>
<b>Grand Total:</b>	<b>1,06,759-34</b>	<b>2,94,824-86</b>	<b>1,90,872-61</b>

Name of the scheme (Plan)	1972-73	1973-74	Total
Departmental (Humanities)	12,848-65	50,458-16	1,61,804-10
Departmental (Science)	16,894-21	1,173-16	2,66,229-88
Basic General (Humanities)	46,858-71	39,054-66	1,43,152-25
Basic General (Science)	39,824-26	14,788-10	1,04,687-26
Basic Old (Humanities)	17,215-81	2,515-29	97,718-81
Basic Old (Science)	4,939-35	2,119-31	85,804-70
LL.M.	39,892-37	10,040-50	19,932-87
<b>Total:</b>	<b>1,48,273-56</b>	<b>1,20,149-18</b>	<b>8,79,329-87</b>

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	1972-73	1973-74	Total
<u>Outside Plan:</u>			
Back volumes (Humanities)	15,818-39	3,924-94	78,093-83
Back volumes (Science)	36,808-41	5,635-10	1,49,880-87
Additional	--	1,22,478-09	1,22,478-09
Total:	52,626-80	1,32,038-13	3,50,452-79
Grand Total:	2,00,900-36	2,52,187-31	12,22,782-66

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UTKAL UNIVERSITY  
FINANCIAL IMPLICATIONS

ANNEXURE- VII  
(Figures in lakhs of Rs.)

S.No.	Department	₹	Books			I	Equipment			I	Buildings			Others/Misc.
			II	III	Total		II	III	Total		II	III	Total	
<b>A. HUMANITIES &amp; SOCIAL SCIENCES.</b>														
1.	Commerce	0.20	0.10	0.10	0.40	0.12	0.07	0.06	0.25	-	-	0.025	0.025	
2.	English	0.37	0.19	0.19	0.75	0.25	0.10	0.10	0.45	-	-	0.050	0.050	
3.	History	0.25	0.13	0.12	0.50	0.15	0.08	0.07	0.30	-	-	0.125	0.125	
4.	Law	0.25	0.13	0.12	0.50	0.05	-	-	0.05	1.55	-	-	-	1.550
5.	Psychology	0.25	0.13	0.12	0.50	0.40	0.20	0.20	0.80	-	-	-	-	
6.	Oriya	0.25	0.13	0.12	0.50	0.10	0.05	0.05	0.20	-	-	0.050	0.050	0.25 allo- cation of manu- scripts.
7.	Philosophy	0.10	0.05	0.05	0.20	-	-	-	-	-	-	0.050	0.050	
8.	Pol. Science	0.25	0.13	0.12	0.50	-	-	-	-	-	-	0.075	0.075	
9.	Anal & App. Economics.	0.25	0.13	0.12	0.50	-	-	-	-	-	-	0.050	0.050	
10.	Sanskrit	0.10	0.05	0.05	0.20	-	-	-	-	-	-	0.025	0.025	
11.	Sociology	0.50	0.25	0.25	1.00	-	-	-	-	-	-	0.100	0.100	
12.	Labour and Social Welfare	0.25	0.13	0.12	0.50	-	-	-	-	-	-	0.050	0.050	
		3.02	1.55	1.48	6.05	1.07	0.50	0.48	2.05	1.550	-	0.600	2.150	0.25

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No.	Department	Books				-2- Equipment				Buildings				Others/Misc.
		I	II	III	Total	I	II	III	Total	I	II	III	Total	
1.	SCIENCE													
1.	Anthropology	0.25	0.13	0.12	0.50	0.50	0.25	0.25	1.00	-	-	0.050	0.050	0.50 Vehicle
2.	Botany	0.37	0.19	0.19	0.75	1.25	0.65	0.60	2.50	-	-	0.300	0.300	0.20 Museum 0.10 Herbarium 0.20 Bot. Garden 0.20 Fern House 0.20 Field Trips 0.90
3.	Chemistry	0.37	0.19	0.19	0.75	1.30	0.70	0.75	2.75	-	-	0.100	0.100	
4.	Geology	0.37	0.19	0.19	0.75	1.00	0.50	0.50	2.00	1.00	-	0.050	1.050	0.20 Field Trips 0.50 Vehicle 0.70
5.	Geography	0.25	0.13	0.12	0.50	0.40	0.18	0.17	0.75	-	-	0.050	0.050	0.20 Field Trips
6.	Mathematics	0.10	0.10	0.05	0.25	0.40	0.18	0.17	0.75	-	-	0.050	0.050	
7.	Physics	0.37	0.19	0.19	0.75	1.50	0.75	0.75	3.00	-	-	0.050	0.050	
8.	Statistics	0.10	0.05	0.05	0.20	0.25	0.13	0.12	0.50	-	-	0.050	0.050	
9.	Zoology	0.37	0.19	0.19	0.75	1.25	0.65	0.60	2.50	-	-	0.050	0.050	0.50 Animal House 0.20 Museum 0.20 Field Trips
		2.55	1.33	1.29	5.20	7.85	3.99	3.91	15.75	1.00	-	0.750	1.750	3.20



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UTKAL UNIVERSITY  
DETAILS OF ADDITIONAL STAFF RECOMMENDED BY THE VISITING COMMITTEE

Annexure-VIII

S.No.	Departments	I				II				III				Remarks
		P	R	L	O	P	R	L	O	P	R	L	O	
A.	<u>FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES.</u>													
1.	Commerce	-	-	-	-	-	-	1	-	-	-	1	-	
2.	English	-	-	-	-	-	1	-	-	-	-	1	-	
3.	History	1	-	-	1	-	-	-	-	-	-	1	-	*Archivist.
4.	Law	-	-	-	-	-	1	-	-	-	-	-	-	
5.	Oriya	-	1	-	-	-	-	1	-	-	-	-	-	
6.	Psychology	1	-	-	-	-	-	1	-	-	-	-	-	
7.	Philosophy	-	-	1	-	-	-	-	-	-	-	1	-	
8.	Pol. Science	-	-	1	-	-	-	-	-	-	-	1	-	
9.	Analytical & App.Eco.	-	1	-	-	-	-	1	-	-	-	1	-	
10.	Sociology	-	1	-	-	-	-	1	-	-	-	-	-	
11.	Labour Welfare	-	1	-	-	-	-	-	-	-	-	1	-	
		2	4	2	1	-	-	2	6	-	-	6	-	



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S.No.	Departments	I				II				III				Remarks
		P	R	L	O	P	R	L	O	P	R	L	O	
<u>B. FACULTY OF SCIENCE</u>														
1.	Anthropology	-	1	-	-	-	-	1	-	-	-	1	-	
2.	Botany	-	-	-	-	-	1	-	-	-	-	1	-	
3.	Chemistry	-	1	-	-	-	-	-	-	-	-	-	-	
4.	Geology	-	1	-	-	-	-	-	-	-	1	-	-	
5.	Geography	-	1	-	-	-	-	1	-	-	-	-	-	
6.	Mathematics	-	-	-	-	-	1	-	-	-	-	-	-	
7.	Physics	-	1	-	-	-	-	1	-	-	-	-	-	
8.	Statistics	-	-	-	-	-	1	-	-	-	-	-	-	
9.	Zoology	-	-	-	5*	-	1	-	-	-	-	1	-	*1. Museum Keeper-1
10.	Central Workshop	-	-	-	3†	-	-	-	-	-	-	-	-	2. Animal House Keeper. -1
11.	Health Centre	-	-	-	***	-	-	-	-	-	-	-	-	3. Museum Asstt.-1
	Total:-	-	5	-	8	-	4	3	-	-	-	1	3	4. Assistant -1
	Grand Total	-2	9	2	9	-	6	9	-	-	-	1	9	5. Technical Assistant -1

1. Workshop Suptd. 1  
 2. Electrician or Electric Mechanic. 1  
 3. Glass Blower/ Carpenter -1  
 \*\*\*Usual Staff required for Health Centre.

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UNIVERSITY GRANTS COMMISSION

P A R T - III

Report of the Visiting Committee appointed by the University Grants Commission to assess the development requirements of the Sambalpur University for the Fifth Five Year Plan period

The University Grants Commission appointed a Committee to assess the development requirements of Sambalpur University for the Fifth Plan period.

2. The Committee visited the University on 20th- 21st January, 1975. It had preliminary discussions with the Vice-Chancellor, the Registrar and Members of the Syndicate on 20th January, 1975. Thereafter, the members of the Committee discussed in two groups the Fifth Plan proposals of the various departments with the concerned staff. It also met students and teachers representatives and visited the G.M. College, Sambalpur. The Committee also visited buildings constructed with the assistance of the Commission as well as those constructed with the assistance of the State Government. In the final round of discussions with the Vice-Chancellor and members of the Syndicate the Committee had an overall picture of the continuing schemes and the priorities indicated by the University in its Fifth Plan proposals. The report of the Committee follows:-

3. Basic Facts and Figures:

3.1 The Sambalpur University was established and incorporated by the Orissa Act (22) of 1966 named as Sambalpur University Act. It started functioning w.e.f. January, 1967 with its territorial jurisdiction extending over the districts of Bolangir, Kalahandi, Sambalpur and Sundergarh and Bdkh. sub-division of Pkulbani District and Athmalik sub-divisions of Bhanikera district.

3.2 With the incorporation of the University on 1st January, 1967, 21 colleges including the Government Medical College, Burla; Government Training College, Sambalpur and University College of Engineering, Rourkela which were previously under the jurisdiction of the Utkal University were transferred to the Sambalpur University.

3.3 Campus: The University has a campus on a land measuring 962 acres. The following academic buildings have been constructed. The built up area is indicated against each:-

(1) Physics Block	8041.51 sq.ft.
(2) Chemistry Block	7657.43 sq.ft.
(3) Biology Block	8196.00 sq.ft.

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(4) Mathematics Block	5434.31 sq.ft.
(5) Humanities Block	12764.00 sq.ft.

All these buildings are double storeyed. Besides, these buildings, the administrative block is also situated at the campus. The University has one foot-ball ground, one volley-ball court and one badminton court.

3.4 Postgraduate Departments:- At present there are nine postgraduate teaching departments, viz., mathematics, physics, chemistry, biological sciences, economics, history, political science, english and oriya which were set up during the Fourth Plan period. Postgraduate teaching is also being done in some subjects in G.M. College, Sambalpur; Government Medical College, Burla and Regional Engineering College, Rourkela.

3.5 Constituent Colleges:- The University has two constituent colleges, viz., L.R. Law College, Sambalpur and University College of Engineering, Burla.

3.6 Affiliated Colleges:- On 31st January, 1975 the number of colleges affiliated to the University was 27 of which 23 were Arts, Science and Commerce Colleges, two training colleges, one engineering and one medical college.

3.7 Admission Qualifications:- In so far as the qualifications for admission to the postgraduate courses are concerned preference is given to B.A./B.Sc./B.Com. (Hons.) students.

3.8 Medium of Instruction:- The medium of instruction and examinations at all levels, in Arts, Science and Commerce subjects is English.

3.9 Enrolment:- The enrolment of students in the postgraduate departments during 1974-75 is given in Annexure-I. Of 266 students in the Arts Faculty, 64 are girls and of 117 students in the Science Faculty 30 are girls.

3.10 The student enrolment in the 29 colleges (including two constituent colleges) is given below:-

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3.11 Teachers:- The sanctioned strength of teachers (both UGC and State Government) in the 9 postgraduate departments is: Professor - 9; Readers - 13 and Lecturers - 24. On 1st April, 1974 the total number of teachers in position was Professors - 7; Readers - 12 and Lecturers - 24. The departmentwise break-down is given below:-

	Eng.	Oriya	Eco.	Hls.	Pol.Sc.	Bio.Sc.	Phys.	Chem.	Maths.
Professors	1	1	1	1	1	-	-	1	1
Readers	2	1	1	1	-	2	2	2	1
Lecturers	1	2	3	2	3	5	2	3	3
Total:	4	4	5	4	4	7	4	6	5

So far as colleges are concerned, there are 220 teachers of whom 47 are professors, 123 readers and 856 lecturers. Besides, there are 1374 members who belong to other categories. The college-wise break-down is given in Annexure-III.

3.12 Procedure for Selection of Teachers:- Teachers in the University departments are recruited through selection committees as enjoined in the Act. For appointment to the ranks of professors and readers there are invariably experts from outside the State. The posts are advertised in a large number of all-India papers. So far as the Government affiliated colleges are concerned, recruitment and promotion of teachers are made through the State Public Service Commission. The Orissa Education Act has a provision for central recruitment of teachers in private affiliated colleges by agencies of the State Government. But this provision has not yet been given effect to. There is no provision for promotion of teachers in the University. All posts are filled up through all-India advertisements.

3.13 Examination Results:- Examination results for the various courses of the University during the period from 1970-71 to 1973-74 are given in Annexure-IV.

During the period from 1968-69 to 1973-74 nine candidates were awarded Ph.D. degree in the Faculty of Science, the two in Chemistry.

3.14 Workload of Teachers:- Broadly speaking, four periods each of 55 minutes are devoted to each paper for lecture work, and a similar number of periods is allowed for practical work, wherever required. The general pattern of workload per teacher

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per week is: Professor - 10 to 12 periods, Reader - 12 to 14 periods and Lecturer - 12 to 16 periods.

3.15 Income and Expenditure:- Details of annual income and expenditure of the University from 1966-67 to 1973-74 are given in Annexure-V. It would be seen that the University has been having surplus budgets except in 1970-71, 1972-73 and 1973-74. The deficit was the highest in 1970-71.

4. Progress of Fourth Plan Schemes:-

4.1 The University was established in the Fourth Five Year Plan. It started the construction of administrative buildings, teaching departments buildings and library building some of which were in progress at the time of the visit of the Visiting Committee. All the teaching departments and administrative offices have shifted to the campus. The Commission provided assistance for the construction of academic buildings, hostels, Vice-Chancellor's residence, staff quarters, student home, teachers' hostel and health centre. The Commission also assisted the University for the establishment of study centre and Science departments; for the purchase of water coolers, living room furniture for the hostels, equipment for science departments, library books and journals and for the publication of research works. The total approved provision for these schemes was of the order of Rs.82.06 lakhs of which the Commission's share was Rs.59.14 lakhs. The grants released upto the end of the Fourth Plan period amounted to Rs.49.02 lakhs. The actual spill over was Rs.8.39 lakhs which would be the first charge on the Fifth Plan allocation of Rs.1.00 crore. Details about the schemes approved, grants released upto 31st March, 1974, grant paid after 31st March, 1974, and the spill over to the Fifth Plan are given in Annexure-VI.

/employment information-cum-Advisory Bureau, for the appointment of additional staff in Humanities and Social Sciences and

4.2 Regarding the buildings approved by the Commission during the Fourth Five Year Plan the position is as under:-

- (a) Arts block, Vice-Chancellor's residence and staff quarters are under construction.
- (b) Physics, Chemistry and Zoology Blocks have been completed and occupied.
- (c) Health centre building has been completed but electric fittings and sanitary installations are yet to be done.
- (d) The building of the student home is complete but electric fittings and water and sanitary installations are yet to be done.

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- (e) Two men's hostels and one women's hostel have been completed and occupied.
- (f) Bachelors' flats have been completed. Only one block comprising of two flats, one on the ground floor and the other on the first floor, was being occupied by one lecturer and one research scholar respectively. Other flats are being used to accommodate senior students.
- (g) Lecturers' quarters have been completed and occupied.

5. Fifth Plan proposals:

5.1 Against the tentative allocation of Rs.1.00 crore the University has submitted proposals to the University Grants Commission envisaging an outlay of Rs.2.75 crores spread over a period of five years beginning from the financial year 1974-75. Of the total outlay, Rs.1.53 crores have been provided for the first priority projects including spill over from the Fourth Plan, Rs.0.52 crore for the second priority projects and Rs.0.70 crore for the third priority projects.

5.2 During the course of discussions with the Vice-Chancellor and the members of the Syndicate, the following points were made by the Vice-Chancellor:-

- (a) Due to the educational backwardness of the area under the jurisdiction of the University, the Vice-Chancellor considered it highly desirable to open new branches of studies. Keeping in view the necessity and desirability of the proposed courses and public demand for opening of new branches of studies the University has identified in order of priority 10 new postgraduate departments, namely, viz., Industrial and Business Management, Indian Culture and Civilisation, Statistics and Operational Research, Home Science, Applied Geology, Mining and Geo-physics, Social and Cultural Anthropology, Master of Laws, Geography, Sociology, Psychology and three diploma courses one each in German and Russian Languages and Social Work and Archives.
- (b) As the University is rather new, the site has not yet been fully developed and much of the campus is yet to be built. Further hostel accommodation and quarters for teachers and officers are required to be provided and there is acute scarcity of quarters for Class-III and Class-IV staff.

- (c) A number of buildings sanctioned by the Commission during the Fourth Plan period are to be completed and, therefore, the University has a fair amount of spill over from the Fourth Plan to the Fifth Plan.
- (d) The University has introduced semester system w.e.f. July, 1973 and has modified the syllabi and methods of examination at the postgraduate level. The existing departments need strengthening to cope with the consequential increase in the workload. The changes introduced have also their impact on the requirements of books, equipment and even class room accommodation. Thus, the University requires considerable funds for the consolidation of the existing departments.
- (e) It was also pointed out that some basic general amenities like:- (i) purchase of books and equipment and strengthening of staff for the Central Library; (ii) setting up of a University press, and (iii) a Central Workshop, are to be provided on a high priority basis.
- (f) The cost of construction has during the last three years almost doubled and the University is indebted to the PWD to the tune of Rs.20.00 lakhs. In the Fourth Plan, the UGC accepted the proposal for the construction of Humanities Block at an estimated cost of Rs.4.72 lakhs but kept its share as Rs.3.00 lakhs, because this was the amount indicated by the Fourth Plan Visiting Committee by way of Commission's share. Subsequently, when the estimates certified by the PWD amounting to Rs.7.00 lakhs were sent, the UGC noted the cost but did not enhance its share. This has been the case with almost every building and consequently the University is indebted to the P.W.D. to the tune of Rs.20.00 lakhs.
- (g) The University has been conducting law course in two colleges, viz., G.M. College, Sambalpur and L.R. Law College, Sambalpur. But, there is no provision for the teaching of law at the postgraduate level and hence facilities for postgraduate education in legal studies are to be provided on a high priority basis.

6. General Observations and Recommendations:

6.1 The Sambalpur University is designed to be a teaching-cum-affiliating University. Postgraduate teaching in Arts and Science subjects is also being done in the local G.M. College, Sambalpur.

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According to the Act, the University may undertake postgraduate as well as undergraduate teaching in its postgraduate departments. The Fourth Plan Visiting Committee which visited the University in 1967 was given to understand that the University was considering a proposal to take over the postgraduate departments from the G.M. College, Sambalpur but the present Committee found that the postgraduate departments have been started in the University in almost all the subjects which are being taught in the G.M. College, Sambalpur, which is situated only at a distance of about 9 miles from the University headquarters. The Fourth Plan Visiting Committee was, however, of the view that "it would not be desirable or advantageous to take over the existing postgraduate departments of the G.M. College, Sambalpur in order to start its own postgraduate departments, since the facilities available in the departments concerned in G.M. College are very inadequate. Further, there would be a complicated problem of absorption of the teachers into the university service. The University departments, should ensure maintenance of standards of teaching and research and in view of limited funds, shortage of adequately qualified personnel etc., it would be desirable if the University departments are opened in a planned and in a phased manner". The University, therefore, as stated earlier, established nine postgraduate departments during the Fourth Plan period in Arts and Science subjects.

6.2 The number of periods allotted to lecture work and practical work, wherever required, in each paper is on the high side and the students are hardly left with any time for self-study. The Committee would like to impress upon the University academic community that the contact periods should be reduced immediately, at least by 33 per cent, so as to allow the students more time for consulting the library and for attending tutorials and seminars and also to allow the teachers more time for research.

6.3 The University has generally resisted increasing the intake of each department, which is really a happy feature. It was, however, felt that the departments have capacity to absorb more students and the Committee, therefore, suggests that the intake of the departments may be increased to a reasonable limit specially keeping in view the viability of the department as well as the proper and economical use of the existing physical facilities.

6.4 The University proposes to introduce more special papers in each subject. The Committee was of the view that such a policy may not be helpful in all the cases and only such special papers may be introduced which are relevant to the research activities of the department and also which suit the needs of the local community.



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6.5 The Committee notes that as yet no proper inter-disciplinary research or study has been undertaken by the University for there is a proposal of the type during the Fifth Plan. It would, therefore, be desirable, not only to introduce inter-departmental studies but also inter-university collaborative programmes.

6.6 For purchasing equipment, the Committee suggests that a Committee may be set up for the purchase of items, costing more than Rs. 30,000/- in consultation with the different departments, after pooling the resources of all the departments. Individual items costing less than Rs. 30,000/- may be purchased by the department concerned.

6.7 The Committee is not happy with the maintenance of buildings. The Committee finds that neither the workmanship is good nor the material used is of good quality. In the hostels the drainage system is very poor and lavatories and bath rooms are stinking. The dining hall does not have adequate furniture. The buildings of the students home and the health centre which are nearing completion have developed cracks in the corners. The Committee, therefore, suggests that the University should exercise greater control on the construction of buildings and the material used and also pay more attention to their maintenance.

6.8 For the purchase of books the Committee suggests that the book grant may be utilised between the departmental libraries and the Central Library on 50:50 basis. Book grant should be used in phases spreading it over the entire Fifth Plan period. While the back volumes of journals may be purchased out of the grants allocated by the Commission for the purchase of books and journals, current journals may be purchased by the University from the block grant provided by the State Government. A substantial portion of the book grant, say 33 per cent, may be allocated to the purchase of text books.

6.9 The amenities provided to the students are very inadequate. Because of the distance of the University campus from Sambalpur town from where a large number of students come, the University has to be essentially a residential University. The enrolment of the University is bound to increase in years to come. The present hostel capacity is hardly adequate to meet the existing demand. There is residential accommodation, at present for 260 students against an enrolment of more than 400 students. To avoid overcrowding in the hostels the University needs at least one more hostel for 100 boys and another hostel for 100 girls.

6.10 At present there is no market from where the students and staff residing at the campus may purchase articles of daily necessities. The students have to purchase their rations

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from the Burla town which is two miles away from the University campus. Immediate steps to set up a small functional market at the campus are, therefore, required to be taken by the University authorities.

6.11 The facilities for the health care of the students and staff residing at the campus are just worth the name. The Committee finds that the Health Centre building is nearing completion and would be available only towards the beginning of the next academic session.

6.12 Canteen facilities are also not adequate and need to be further strengthened and extended. The University has very meagre facilities for games and sports. There is one foot-ball ground which is not developed. Volley-ball and badminton courts are also not in proper shape. The Committee is given to understand that the Commission's scheme for providing assistance to the universities and colleges for development of sports is under review. It is recommended that as soon as the scheme is finalised and the policy of the Commission for the Fifth Plan is decided, the Sambalpur University may be provided assistance for developing playgrounds and other sports facilities. The Committee is also informed by the University that the Commission had accepted during the Fourth Five Year Plan a provision for gymnasium but the University could not utilise the opportunity and has now suggested that it may be treated as a spill-over scheme during the current plan period. Since the scheme has now been withdrawn by the Commission and grant is not available for the construction of gymnasium, the Committee feels inclined not to recommend assistance for gymnasium at this stage, but if at any future date the Commission revives this scheme, the Committee recommends that the Commission may give first priority to the Sambalpur University for giving grants for the purpose.

6.13 With additional hostel facilities the water supply position which is hardly satisfactory, has to be improved. Since the programme of making up deficiencies in general amenities will involve construction of buildings on a considerable scale, the University may adopt economic ways of construction and may plan their buildings so that they are more functional and the quality of construction is ensured. It would be advisable if the University while planning buildings consults and takes advice from organisations like CRRI and NBCC.

6.14 The Committee would also add that the additional teaching and technical posts mentioned later in the report are being recommended on the specific condition that w.e.f. the date Commission's assistance ceases i.e. from 1.4.1979 these will be maintained by the State Government and that at no stage the number of teaching and technical staff strength would be less than that existing on

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1.4.1974 plus the additional posts recommended now. If this happens, the Committee recommends that in the Sixth Plan the Commission may take appropriate steps to ensure that this is not repeated.

6.15 The Committee has observed that the Social and Cultural life at the campus is rather dull. No significant cultural activities are being organised by the students or teachers at the campus.

7. For strengthening the existing departments and for setting up new departments the requirements of individual departments are discussed in the following paragraphs.

Faculty of Science:

7.1 Department of Physics:- The department of physics was established in 1969-70. The present intake of the department is 16 students in M. Sc. (previous) and the same number of students in M. Sc. (final). The sanctioned strength of teachers is 6 (1 Professor, 2 Readers and 3 Lecturers). Presently the post of Professor is lying vacant. Three teachers possess research qualifications.

The major areas of research are: Theoretical Nuclear Physics and Particle Physics. The research output of the department is not very encouraging. So far only 3 papers have been published of which two are in foreign journals. Two junior research fellowships are available to the department from the University Grants Commission.

The total value of the equipments possessed by the department would be about Rs. 2,42,830/-. The department specialises in Theoretical Physics but nothing substantial has been achieved during these years. The Committee would like to stress that instead of introducing special papers in Biophysics, Environmental Physics and Atmospheric Physics the department should devote more time and attention on developing research activities in the existing areas and expand its activities in the field of electronics. Keeping this in view the Committee recommends that the following assistance be provided to the department:-

- |     |                     |   |
|-----|---------------------|---|
| (1) | Teaching Staff:     | Reader - 1 (with specialisation in electronics) and Lecturer. |
| (2) | Books and Journals: | Rs. 25,000/-.   |
| (3) | Equipment:          | Rs. 3.00 Lakhs.   |
| (4) | Furniture:          | Rs. 5,000/-.  |

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7.2 Department of Chemistry:- The department of chemistry was established in 1969-70. The present intake of the department is 13 students in M.Sc. (previous) and the same number in M.Sc. (final). There are six teachers (1 Professor, 2 Readers and 3 Lecturers) in the department. All the teachers possess research qualifications. The major areas of research in the department are: (i) Synthetic and Physical Organic Chemistry; (ii) Coordinate Chemistry; (iii) Analytical Chemistry and (iv) Surface Chemistry.

The department has been doing good work. It has produced so far 54 research papers, six of which have been published in foreign journals. The department has worked on and completed nine research schemes so far. Two junior research fellowships one from the CSIR and the other from the University's general research fund are available to the department.

The total value of the equipments possessed by the department would be approximately Rs.1,92,303/-. The department has fabricated two Thermostats - one high temperature and one low temperature.

Since a vast industrial complex is coming up around the University Campus the Chemistry department should maintain liaison with the State Department of Industries and with private industrialists and introduce new areas of training and research in their consultation to suit the regional needs and available natural resources.

The Committee recommends that the following assistance may be provided to the department:-

- |     |                     |  |
|-----|---------------------|--|
| (1) | Teaching Staff:     | Reader - 1 (with specialisation in industrial chemistry) and Lecturer - 1. |
| (2) | Books and Journals: | Rs.20,000/-.   |
| (3) | Equipment:          | Rs.2.00 lakhs.   |
| (4) | Furniture:          | Rs. 5,000/-.   |

7.3 Department of Biological Sciences:- The present intake of the department is 16 students in M.Sc. (previous) and 13 students in M.Sc. (final). The sanctioned strength of the teachers in the department is 7 (1 Professor, 2 Readers and 4 Lecturers). The post of Professor is at present lying vacant and one Lecturer is on study leave. Two teachers possess research qualifications. The major areas of specialisation in the department are: (i) Environmental Biology; (ii) Cytogenetics; (iii) Physiology and (iv) Biochemistry. The department has not

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produced any Ph.D. so far. It has published three papers in Indian journals. The department has so far worked on and completed four research schemes, two of which have been financed by the University Grants Commission and the remaining two by the CSIR.

Three junior research fellowships are at present available to the department - two from the CSIR and one from the University Grants Commission. The total value of the equipments available in the department would be approximately Rs.2,14,174/-.

The Committee noted with concern that the department has not developed along the lines indicated by the Fourth Plan Visiting Committee. However, since the department has been in existence for the last five years the foundation has been laid and now the department can strive to develop along the lines indicated in the Fourth Plan Visiting Committee report. The report says:- "The M.Sc. course in Experimental Biology may provide for study of botany or zoology depending upon the stream from which the students are drawn and also introduce the students to the study of biochemistry, biophysics and biometrics. This would help the Biological Sciences Division to break fresh grounds and to make a distinct contribution to promote study of problems of the Orissa region in a more rational manner. The University would benefit in this direction to obtain suitable expert advice both in the organisation of the Biological Sciences Division and also in framing of suitable courses and recruitment of staff".

The region in which the University is located, possesses ample forests, water and mineral resources which must be exploited for the socio-economic development of the region. Keeping this in view the Committee recommends that the following assistance be provided to the department:-

- (1) Building: 1 Lecture theatre with galleries for accommodating 120 students by readjustment of the existing accommodation.
- (2) Teaching Staff: Reader - 1 and Lecturer - 1 (in Microbiology),
- (3) Equipment: Rs.1,50,000/-.
- (4) Books and Journals: Rs.75,000/-.
- (5) Museum: (with furniture and accessories). Rs.25,000/-.
- (6) Animal House and Insectory: (building with fittings and fixtures). Rs.50,000/-.

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- (7) Field Trips: Rs.20,000/-.
- (8) Technical Staff:
- (i) Museum Keeper: 1 (B.Sc. in Biological sciences with diploma in museology or M.Sc. in museology).
- (ii) Museum Assistant: 1 (Literate).
- (iii) Animal House & Insectory Keeper: 1 (B.Sc. in Biological Sciences with knowledge of Animal and Insect breeding).
- (iv) Assistant Animal House & Insectory Keeper: 1 (Literate).
- (v) Technical Asstt. 1 (with knowledge of taxidermy - B.Sc. in Biological Sciences with training in taxidermy).
- (vi) Herbarium Keeper: 1 (B.Sc. in Biological Sciences with adequate knowledge of maintenance of Herbarium).
- (9) Culture room for Cyto-genetical works: 2 (100 sq.ft. - Rs.40,000/- including provision for temperature control).
- (10) Botanical Gardens: Rs.40,000/-.
- (11) Herbarium (including furniture): Rs.10,000/-.

7.4 Department of Mathematics:- The present intake of the department is 16 students in M.Sc. (previous) and 16 students in M.Sc. (final). The staff strength of the department is four teachers (1 Professor, 1 Reader and 2 Lecturers). Three teachers possess research qualifications.

The major areas of interest in the department are:

- (i) Functional Analysis; (ii) Operation Theory; (iii) Fourier Series; (iv) Summability and (v) Fluid Mechanics.

The department has published six papers in foreign journals and four papers in Indian journals. Since the department has now been in existence for about five years and foundation has been laid, the Committee suggests that steps may now be taken to develop studies and research in fields like Algebraic Topology and Lattices Theory,

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(in collaboration with the department of physics), Differential geometry and differential topology, number theory and system theory, optimisation and control theory (in collaboration with the proposed department of statistics). The activities of the department may also be collaborated with the Engineering College, Burla. The Committee recommends that the following assistance be provided to the department:-

- (1) Teaching Staff: 1 Reader.
- (2) Books and Journals: Rs. 50,000/-.
- (3) Furniture: Rs. 5,000/-.

HUMANITIES AND SOCIAL SCIENCES:

7.5 Department of English:- The present intake of the department is 18 students in M.A. (previous) and 18 students in M.A. (final). The department has four teachers (1 Professor, 1 Reader and 2 Lecturers) of whom only one teacher possesses research qualifications. The department has produced so far one Ph.D. and two research scholars are working for Ph.D. degree. The department has published seven papers in Indian journals in addition to 18 text-books for school children. The major fields of interest of the department are: English and Comparative Literature, Linguistics, Phonetics, and Principles of Teaching English as a foreign language. Two junior research fellowships are available in the department. This is a small department and the research output is not encouraging. The Committee recommends that the following assistance be provided to strengthen the department:-

- (1) Teaching Staff: Reader - 1 and Lecturer - 1.
- (2) Books and Journals: Rs. 25,000/-.
- (3) Furniture: Rs. 5,000/-.
- (4) Language Laboratory:
  - (i) Building: Rs. 30,000/-.
  - (ii) Equipment: Rs. 50,000/-.

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7.6 Department of Oriya:- The present intake of the department is 24 students in M.A. (Previous) and 24 in M.A. (Final). There are four teachers (1 Professor, 1 Reader and 2 Lecturers) in the department of whom only one teacher possesses research qualifications. The department has published 10 papers in Indian journals so far. Two junior research fellowships are available in the department.

It appears that the department has, so far, concentrated only on teaching and much effort has not been made for developing research activities. The Committee noted that the department has a plan to undertake two research projects viz., (i) Bibliography of Oriya periodicals during 1850-1950 and their cultural impact on the Oriya linguistics and literature and (ii) Cultural Survey of Western Orissa, for which funds are required by the department. The Committee recommends that the following assistance may be provided to the department:-

- (a) Teaching Staff: 1 Reader and 1 Lecturer.
- (2) Books and Journals: Rs. 20,000/-.
- (3) Furniture: Rs. 5,000/-.
- (4) Departmental research and survey work: Rs. 20,000/-.

7.7 Department of History:- The present intake of the department is 32 students in M.A. (Previous) and 32 in M.A. (Final). There are three teachers (1 Professor, 1 Reader and 1 Lecturer) in the department and one post of lecturer is yet to be filled. All the teachers possess research qualifications. Seven scholars are working for their Ph.D. degree.



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The major area of research in the department is Ancient Indian History and Archaeology. The research output in terms of papers is rather insignificant. The department has collected Palm Leaf Manuscripts, Kanishka Coins and 5 B.C. coins. Western Orissa had a large number of Princely States, namely, Sundergarh, Kalahandi, Balangir and Bodh States. The Committee was informed that there is a rich collection of manuscripts in these States which is to be procured. The department is also interested in studying the religious life in Orissa in Ancient India and the Socio-economic life of peasants from palm leaf manuscripts which are available in a large number in the temples. The department has not been able to acquire these manuscripts due to shortage of funds. The Committee feels that to encourage the department to undertake such studies and strengthen its teaching programme the following assistance may be provided:-

- (1) Teaching Staff: 1 Reader.
- (2) Books and Journals: Rs. 20,000/-.
- (3) Furniture: Rs. 5,000/-.
- (4) Equipment: Rs. 10,000/-.  
(Photographic equipment).
- (5) Museum:
  - (i) Building: Rs. 50,000/-.  
(1000 sq. ft.)
  - (ii) Collection of manuscripts. Rs. 20,000/-.
- (6) Technical Staff:
  - Photographer 1
  - Curator - 1

7.8 Department of Political Science: - The present intake of the department is 48 students in M.A. (previous) and 48 in M.A. (Final). The staff strength in the department is six teachers (1 Professor, 1 Reader and 4 Lecturers). The post of Reader is lying vacant. Two

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Note: The facilities of museum, equipment and funds for the collection of manuscripts are to be jointly used by both History and Oriya Departments.

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teachers possess research qualifications while others are actively engaged in research. Six research scholars are also working for their Ph.D. in the department.

Although the department is in existence for the last five years, its achievements in terms of research papers have been rather poor. The department has concentrated only on teaching and has not developed any tradition for research. One of the teachers has undertaken three research projects, namely, viz., (i) Socio-economic studies of Sambalpur; (ii) Directory of Municipal Governments in Orissa and (iii) Mid-term election in Orissa. He has also published 12 papers in Indian journals. Except these papers, the department has not produced anything else. The Committee, therefore, suggests that the department should undertake more and more research projects and develop a tradition for research. The Committee emphasizes that the post of Reader which is lying vacant must be filled up immediately. The following assistance may be provided to the department:-

- (1) Teaching Staff: Reader - 1 (Political Behaviour) and Lecturer - 1.
- (2) Books and Journals: Rs. 25,000/-.
- (3) Furniture: Rs. 5,000/-.

7.9 Department of Economics:- The present intake of the department is 24 students in M.A. (previous) and 24 in M.A. (final). The staff strength in the department is five teachers (1 Professor, 1 Reader and 3 Lecturers) of whom the Head of the department possesses research qualifications. The department has so far published six papers in Indian journals and three candidates are working for their Ph.D. degree.

This is the only department of Economics in the State of Orissa which is specialising in teaching and research in quantitative methods. The department is at present busy in the following projects: (i) Determination of State's Fiscal Capacities, Needs and Their implications for federal transfers, financed by the ICSSR; and (ii) Analysis of Economics of Road Transport in Orissa, financed by the State Government. The chief objective of the department is the preparation of a data base for the region. The emphasis is on rural wage differentials, production differentials and price differentials etc.

The major areas of interest are: Quantitative Economics, Regional Economics and Public Economics. The department proposes to develop these areas further. In addition, the objective is to develop quantitative research. This is a fairly strong and active

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department. The Committee recommends that the following assistance may be provided to the department:-

- (1) Teaching Staff: Professor - 1 (preferably with specialisation in Econometrics or Mathematical Economics) and Reader - 1 (public finance).
- (2) Books and Journals: Rs.40,000/-.
- (3) Equipment: Rs.25,000/-.
- (4) Furniture: Rs. 5,000/-.
- (5) Building: Rs.50,000/- (with furniture)  
(1000 sq.ft.)
- (6) Technical Staff:  
Statistical Asstts: 2
- (7) Purchase of Computer Rs.10,000/-  
time:
- (8) Travelling cost: Rs.10,000/-.

NEW DEPARTMENTS:

The University has included in its Fifth Plan proposals the establishment of a number of new departments. After discussing the proposal in its various aspects and after examining the employment potential of the products that will be produced by these departments the Committee has reached the conclusion that the time is not yet ripe and the necessary infrastructure is not yet available for the establishment of some of these departments. Moreover, in view of limited resources it is also not advisable to set up all departments in all the universities. The Committee, therefore, recommends as under:-

7.10 Department of Sociology and Social Anthropology:- The proposal of the University is to establish departments of social and cultural anthropology, sociology and psychology. The Committee feels that studies in the social, economic and cultural life of the tribes, which number at least 56, would be really beneficial and relevant to the needs of the area. The Committee is of the view that a department of sociology and social anthropology could serve the purpose and, therefore, recommends that it may be set up in the University. The department should take up programmes in collaboration with and frame its courses in consultation with the departments of

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history, political science, oriya and economics. Following assistance may be provided for this department:-

- (1) Teaching Staff: Professor - 1 (Social Anthropology), Readers - 2 (one in sociology and the other in social psychology) and Lecturers - 2. (I Reader & I Lecturer III priority).
- (2) Books and Journals: Rs.50,000/-.
- (3) Building and furniture (4000 sq.ft.) Rs.2.00 lakhs.
- (4) Equipment: Rs.25,000/-.
- (5) Field Trips: Rs.10,000/-.

7.11 Department of Geology:- The Committee considered the proposal of the University for setting up a department of applied geology. The Committee feels that at present there is no proper infrastructure for opening this department. Except in the Regional Engineering College, Rourkela and in one more college there is no scope for the study of geology at the honours level. As such the teaching of geology at the undergraduate level, especially at the honours level, has to be strengthened first to provide the necessary base. Unless this is done, it is difficult to visualise a viable postgraduate department of geology and more so an Applied Geology department, which requires a large capital expenditure on equipment and laboratory set up.

Nevertheless, considering the geological potentialities of Western Orissa much development in the exploration and exploitation of the mineral resources in this region can be visualised. This would naturally call for providing training at the postgraduate level in geology to the students of this region and the proposal of the University in this direction merits consideration. It is felt that the University may encourage development of the studies in geology at the honours level immediately to provide the infrastructure necessary for a postgraduate department, which may be started during the next Plan period after an examination of the detailed proposal by a Committee of experts in geology.

7.12 Department of Geography:- Here also, as in the case of geology the infrastructure is not strong enough for setting up a postgraduate department at this stage and this can possibly wait till the Sixth Plan. It may be suggested that considering all aspects of the proposal for starting geology and geography

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departments, a department of earth sciences may be set up instead early in the Sixth Plan period. This may then fulfil the need for applied geology and geography departments as well as of other allied disciplines.

7.13 Department of Law: (LL.M.):- The Committee feels that since there is already a department in existence at Utkal University where the number of students is quite small, it would not be advisable to start LL.M. courses at Sambalpur University.

7.14 Department of Indian Culture and Civilization:- In the opinion of this Committee it would be advisable to introduce a paper on Indian Culture and Civilisation for the M.A. course in History rather than to establish a separate department.

7.15 Department of Home Science:- Since there is no postgraduate teaching department in home science in any of the universities in Orissa and there is dearth of teachers in the subject, both at school and college levels, in the State and a large number of schools and colleges are offering home science as a subject of study, the Committee recommends that a department of home science may be set up at the Sambalpur University and the following assistance may be provided for the department:-

- (1) Teaching Staff: Reader - 1 and Lecturers - 2.
- (2) Building with furniture (4000 sq.ft.): Rs.2.00 lakhs.
- (3) Equipment: Rs.1.00 lakh.
- (4) Books and Journals: Rs.25,000/-.
- (5) Supporting Staff:  
Laboratory Assistant 1

7.16 Department of Industrial and Business Management:- This part of Orissa has a number of small and heavy industries including steel plant at Rourkela, two cement factories, one aluminium smelter and a large paper mill. Moreover, this is the only University in the State which has a faculty of Engineering with two engineering colleges teaching up to the Postgraduate level. Since the necessary infrastructure is there and the students after getting training in industrial and business management will have potential for jobs in the area the Committee recommends that a diploma course in industrial and business management may be introduced at the Sambalpur University. The proposal of the University may be recommended to the A.I.C.T.E. for their consideration.

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7.17 Department of Statistics & Operational Research:- The University has at present departments of mathematics, physics, quantitative economics and engineering departments which provide the necessary infrastructure for setting up a postgraduate department of statistics and operational research. The Committee recommends that the department may be set up at the University and the following assistance may be provided for the purpose:-

- (1) Teaching Staff: Professor - 1, Reader - 1 and Lecturer - 1. (1 Lecturer - III priority)
- (2) Books and Journals: Rs.50,000/-.
- (3) Building with furniture: (4000 sq.ft.) Rs.2.00 lakhs.
- (4) Equipment: Rs.25,000/-.
- (5) Technical Staff:  
Laboratory Asstt. 1

7.18 Department of Library Science:- Since there is no University in the State which provides a course in library science and there is dearth of trained librarians in the State, the Committee recommends that a diploma course in library science be introduced by the Sambalpur University. The University may be provided with the following assistance:-

- (1) Teaching Staff: Reader - 1 and Lecturers - 2.
- (2) Building with furniture: (2000 sq.ft.) Rs.1.00 lakh.
- (3) Equipment: Rs.25,000/-.
- (4) Books and Journals: Rs.25,000/-.

In the foregoing paragraphs the Committee has recommended additional posts of Professors - 3, Readers - 15 and Lecturers - 15 in I, II and III priorities for existing and new departments. These posts are inclusive of the nine posts of Readers sanctioned by the Commission earlier, in this plan period.

8. Central Library:- The library is at present housed in a big room as there is no library building. Since there is no place for keeping the books and for the display of journals, most of the books are purchased and sent to the departmental libraries. There is a strong library staff looking after this small library. The

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library has a stock of 33,676 books and 974 back volumes of journals. It is subscribing to 167 journals. The average number of books issued to students and teachers per week is 105. The library remains open from 9.30 A.M. to 8.30 P.M. except on Sundays and holidays. Language-wise there were 500 volumes in Hindi language, 23,267 in English and 10,000 in Oriya. There is no separate text-book section. There are 11,080 volumes of text-books meant for postgraduate students, in the library.

Grants amounting to Rs. 11.27 lakhs were provided by the University Grants Commission during the Fourth Plan. The Committee was given to understand that a building for the Central Library was also sanctioned by the Commission during the Fourth Plan period but it could not be taken up due to the delay in finalisation of plans and estimates. Since the cost of materials and labour has increased tremendously during the last three years and the project relating to the construction of the library building is a huge one, the Committee suggests that the construction of the building may be phased and for the current plan period an amount of Rs. 5.00 lakhs may be provided for the building by way of Commission's share. The Committee further recommends that a grant of Rs. 7.00 lakhs for the purchase of books and journals covering both science and humanities departments (Rs. 3.00 lakhs and Rs. 4.00 lakhs respectively) may also be provided.

Every department has a departmental/seminar library. The procedure for the purchase of books and journals, followed by the University is that the books are purchased by the University librarian on the recommendation of the respective heads of departments and then these books are transferred to the departmental librarians. These departmental libraries possess reference as well as text-books and these are issued on daily basis to the students.

Year-wise expenditure on books and journals during the Fourth Five Year Plan is given below:-

<u>Year</u>	<u>Expenditure</u>
1966-67	...
1967-68	... Rs. 14,712
1968-69	... Rs. 12,478
1969-70	... Rs. 81,338
1970-71	... Rs. 3,79,227
1971-72	... Rs. 1,45,810
1972-73	... Rs. 2,68,804
1973-74	... Rs. 1,51,895

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9. Central Workshop: - The Committee feels that a central workshop which caters to the requirements of all science departments is an essential central facility and must be given top priority. The science departments have been in existence for the last five to six years and the University has failed to develop a workshop. The Committee recommends that the workshop may be set up immediately and the Commission may provide the following assistance for building and equipment. The equipment grant may be utilised for purchasing lathes, drilling machine, milling machine, grinders, tools and other basic equipments. The workshop may be supervised by a workshop superintendent. The Committee recommends that the following provisions may be approved for it:

- (1) Building ... Rs. 1,00,000
- (2) Machinery &... Rs. 1,50,000
- (3) Equipment  
Furniture ... Rs. 10,000

Staff:

- (i) Workshop Superintendent ... 1
- (ii) Electrician or Electronics  
Mechanic. ... 1
- (iii) Glass-blower/Carpenter ... 1

The workshop superintendent should be a graduate either in mechanical or electrical engineering with experience in instrumentation. He should be appointed in Lecturer's scale of pay. Mechanic, Glass-blower/Carpenter and Electrician may be appointed in Demonstrator's scale of pay. Non-technical staff like helper, cleaner, mate etc. may be provided by the State Government.

10. Student Amenities:

10.1 The Committee met a representative group of students, who stressed lack of amenities like library and reading room facilities, inadequate number of text-books, lack of transport facilities, lack of games and sports facilities etc. etc. They pointed out that since most of them come from Sambalpur town which is six miles away from the University Campus, lack of transport facilities lead to their late arrival in the classes. They, therefore, desired that at least two buses may be provided to the University by the Commission. They also mentioned that, so far no playground has been developed by the University. This fact has also been verified by the Committee. While the Committee appreciates the difficulties faced by the students in commuting from Burla and Sambalpur towns to the university campus, it expresses its inability to recommend any assistance in this connection because the University Grants Commission does not



provide any financial help for the purpose. The Committee, however, recommends that the university may take immediate steps to provide these basic amenities to the students. The University should also spend at least 33 per cent of the book grant on the purchase of text-books.

10.2 At present the enrolment of the University is about 400 and there are two boys' hostels for 200 boarders and one women's hostel for 60 boarders. Thus against 400 students, hostel accommodation is available for 260 students. With the opening of new subjects, it is likely that the number of students may increase by about 100 during the following year. The Committee, therefore, recommends that the University may be assisted for adding one more boys hostel for 100 boarders and a women's hostel for 60 boarders under first priority and another boys hostel for 100 boarders in the second priority during the Vth Plan period.

10.3 The building of the health centre is nearing completion and it will take some time before health care services are provided to the teachers and students residing at the campus. The difficulty faced by the residents is really genuine. The Committee, therefore, recommends that the health centre may be equipped and staff appointed immediately.

10.4 The canteen facilities at the campus are also far from satisfactory and need to be further strengthened. The Committee recommends that assistance may be provided by the Commission for the construction of a spacious canteen on the usual sharing basis so that the students may be served clean meals and snacks during lunch hours.

11. Research Fellowships:- The Committee was informed that a large number of meritorious students, with an acumen for research are denied from pursuing research. They have to take up jobs which are either against their temperament or do not fit to the training which they have acquired. It has also been seen that the research workers after working for a few months discontinue and join jobs lower to their qualifications. There was a general feeling that if the number of research fellowships could be raised, these research workers could continue their research and contribute to the advancement of knowledge. While the Committee appreciates the problems of the research scholars and the anxiety of the University to retain such workers in the field of research, it expresses its inability to recommend the award of junior fellowships to the extent desired by various departments. However, the Committee recommends that the Commission may approve a provision of Rs.6.00 lakhs for the award of 10 junior fellowships during the Fifth Five Year Plan. Since

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these fellowships will be plan based, these will have to be supported by the State Government from its own resources from the beginning of the Sixth Plan period. A specific assurance may be obtained from the State Government/University in this regard.

12. Teacher Amenities:- During the Fourth Plan the Commission provided assistance to the University for the construction of 20 bachelors' flats and a teachers' hostel. Besides, some quarters for lecturers were also provided. The University has, thus staff quarters for 9 Professors, 10 Readers and 24 Lecturers. Thus, more than 50% Readers and more than 25% Lecturers are yet to be provided with residential accommodation at the campus. Besides, 3 Professors, 16 Readers and 15 Lecturers are to be appointed in the Fifth Plan. For meeting the requirements partially, the University may be provided assistance for the construction of staff quarters for 2 Professors, and 5 Readers and two teachers hostels each containing 10 flats.

13. General Facilities:

13.1 Guest House:- The University started the construction of a building for the guest house during the Fourth Five Year Plan on the assumption that the Commission's assistance would be available for it during the Fifth Five Year Plan. The Vice-Chancellor stated that the construction work is being executed by the PWD on loan basis and the University would make payment to the PWD during the Fifth Plan. The reasons indicated by the Vice-Chancellor were that (i) the University has economised expenditure in starting the work in the Fourth Plan, since the building is being constructed on the old rates and (ii) the building of the guest house would be ready within a month or so and would be available for the stay of external examiners and other distinguished visitors from the next academic session. Had the University deferred the construction of the building to the Fifth Plan, it was possible that the guest house building would have never come up especially in view of the financial constraints. The Committee appreciates the need of a Guest House, especially because of the fact that there are only two guest houses near the campus, one belonging to the Hydrol. Department and the other to the State Government known as Asok Niwas. These guest houses are not very commodious and are generally occupied by the Government Officers. The rates at Asok Niwas are quite exorbitant and are beyond the reach of persons of average means. Since there is a genuine need for a Guest House and the building is being constructed by the PWD on old rates, the Committee recommends that the Commission may, as a special case, agree to provide assistance to the University

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for the building which is under construction. The Commission's share against an estimated cost of Rs. 4.03 lakhs would be limited to Rs. 1.50 lakhs.

13.2 The Committee also recommends that a provision of Rs. 2.00 lakhs may also be made for residential quarters of Class IV staff on the usual sharing basis.

13.3 There are 29 colleges affiliated to the University as indicated earlier. During the Fourth Plan there was no machinery to co-ordinate the developmental activities of the colleges and also to take care of the utilization of grants paid by the University Grants Commission under various schemes. The University has now constituted a Planning and Coordination Committee for coordinating various development programmes of the University as well as those of the colleges and has availed of the facility provided by the University Grants Commission for the appointment of a Development Officer who will be in charge of this work and will act as the Secretary of the Planning and Coordination Committee. As the appointment of the Development Officer is in accordance with the policy of the Commission, the University may be assisted on this account from the beginning of the current plan period.

14. Financial Implications:- A summary of the financial implications (UGC share) of the Committee's recommendations (priority-wise) along with the committed expenditure for the development of higher education and research in the faculties of Arts and Science at the Sambalpur University is given below:

Items:	(figures in lakhs of rupees)		
	<u>Priority</u>		
	I	II	III
1. Spill over ...	8.39	-	-
2. Basic grant:			
(i) Library books	3.00	-	-
(ii) Equipments	5.00	-	-
3. New allocations:			
(i) Library books	5.50	3.12	3.08
(ii) Equipment	5.27	2.63	2.70
(iii) Buildings	17.55	10.35	6.35

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Items:	(figures in lakhs of rupees)		
	Priority		
	I	II	III
(iv) Others ...	3.05	-	-
(v) Research ... Fellowships	-	3.00	3.00
(vi) Recurring ...	10.32	7.21	3.80
Total: ...	57.88	26.31	18.93

Grand Total: Rs. 103.12 lakhs

The department-wise and purpose-wise break-down of non-recurring expenditure involved in the implementation of the recommendations of the Committee is given in Annexure-VII.

The department-wise and category-wise break-down of the additional posts recommended in the report is given in Annexure-VIII.

The total allocation, thus, recommended amounts to Rs. 103.12 lakhs (UGC share) against the tentative allocation of Rs. 100 lakhs. It may be pointed out that out of this allocation an amount of Rs. 8.39 lakhs is payable to the University in respect of schemes and projects which are continuing from the earlier plans. This also includes an amount of Rs. 8.00 lakhs approved during the current plan period for the purchase of library books and science equipments.

The Committee places on record its thanks to the Vice-Chancellor, Members of the Faculty and the University Staff for providing all facilities to the Committee during their visit to the University.

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ANNEXURE- I

SAMBALPUR UNIVERSITY

TOTAL ENROLMENT OF POSTGRADUATE DEPARTMENTS:

A: Faculty of Arts:

	Boys	Girls	Total
1. Economics	35	10	45
2. History	42	9	51
3. Political Science	69	17	86
4. Oriya	26	23	49
5. English	30	5	35
		Grand Total:	<u>266 (A)</u>

B. Faculty of Science:

1. Chemistry	28	3	31
2. Biological Science(s)	18	13	31
3. Physics	21	6	27
4. Mathematics	20	8	28
		Grand Total:	<u>117 (B)</u>

Total of A+B = 383

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TOTAL ENROLMENT OF COLLEGES (ARTS, SCIENCE AND COMMERCE)

Name of the College	UNDER GRADUATE									POST GRADUATE			Grand Total
	ARTS			SCIENCE			COMMERCE			Boys	Girls	Total	
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Sundargarh College, Sundargarh.	339	107	446	311	44	355	-	-	-	-	-	-	801
2. Govt. Evening College, Sambalpur.	709	-	709	-	-	-	-	-	-	-	-	-	709
3. Trust Fund College, Sambalpur.	58	5	63	-	-	-	-	-	-	-	-	-	63
4. S.K.D.A.V. College for Women, Rourkela.	-	368	368	-	161	161	-	-	-	-	-	-	529
5. Women's College, Sambalpur	-	208	208	-	85	85	-	-	-	-	-	-	293
6. Rajendra College, Bolangir	692	8	700	366	26	392	-	-	-	-	-	-	1092
7. D.A.V. College, Titilagarh	187	23	210	61	4	65	53	-	53	-	-	-	328
8. Rajgarh College, Rajgarh	376	25	401	-	-	-	-	-	-	-	-	-	401
9. Women's College, Bolangir	-	173	173	-	-	-	-	-	-	-	-	-	173
10. Rourkela Science College, Rourkela.	318	31	349	410	61	471	-	-	-	-	-	-	820
11. Kuchinda College, Kuchinda	285	12	297	95	5	100	-	-	-	-	-	-	397
12. Sonapur College, Sonapur.	127	13	140	21	-	21	-	-	-	-	-	-	161
13. Panchayat College, Bargarh	490	70	560	224	24	248	-	-	-	-	-	-	808
14. Larambha College, Larambha	128	7	135	118	2	120	-	-	-	-	-	-	255
15. Jawaharlal College, Patnagarh.	121	9	130	34	-	34	-	-	-	-	-	-	164
16. Jaxminarayan College, Jharsuguda.	174	48	222	141	5	146	-	-	-	-	-	-	368
17. Bonaigarh College, Bonaigarh	133	19	152	-	-	-	-	-	-	-	-	-	152
18. Anchal College, Padampur	199	13	212	61	6	67	-	-	-	-	-	-	279
19. Kala-handi College, Bhawanipatna.	373	74	447	191	16	207	-	-	-	-	-	-	654
20. Deogarh College, Deogarh	270	14	284	215	9	224	-	-	-	-	-	-	508
21. Bhima Bhoi College, Rairakhol	181	9	190	-	-	-	-	-	-	-	-	-	190
22. Rourkela Evening College, Rourkela.	564	-	564	-	-	-	-	-	-	-	-	-	564
23. G.M. College, Sambalpur	872	94	966	782	62	844	227	-	227	298	35	233	2370
Total:-	6596	1330	7926	3030	510	3540	280	-	280	298	35	333	12079

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TOTAL ENROLMENT (PROFESSIONAL COLLEGES)

S. No.	Name of the Colleges	Unver- Graduate			Post- Graduate			Grand Total
		Boys	Girls	Total	Boys	Girls	Total	
1.	Govt. Training College, Bolangir.	90	30	120	-	-	-	120
2.	Lajpat Rai Law College, Sambalpur.	1034	7	1041	-	-	-	1041
3.	U.C.E. Burla	772	-	772	6	-	6	778
4.	Govt. Training College, Sambalpur.	135	45	180	-	-	-	180
5.	Rourkela Engineering College, Rourkela.	956	1	957	91	3	94	1051
6.	V.S.S. Medical College, Burla.	560	96	656	-	-	-	656
Total:-		3547	179	3726	97	3	100	3826

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## CATEGORY-WISE DISTRIBUTION OF TEACHERS IN COLLEGES (ARTS, SCIENCE &amp; COMMERCE)

Name of the College	Prof.	Reader	Lecturer	Others	Total
1. Sundargarh College, Sundargarh	-	6	49	16	71
2. Govt. Evening College, Sambalpur	-	-	25	16	41
3. Trust Fund College, Sambalpur	-	-	6	5	11
4. S.K.D.A.V. College for Women, Rourkela.	-	1	19	25	45
5. Women's College, Sambalpur	-	3	24	15	42
6. Rajendra College, Bolangir	-	6	60	87	153
7. D.A.V. College, Titilagarh	-	1	32	34	67
8. Rajganpur College, Rajgangpur	-	1	20	12	33
9. Women's College, Bolangir	-	1	14	16	31
10. Rourkela Science College, Rourkela.	-	5	35	32	72
11. Kuchinda College, Kuchinda	-	4	17	28	49
12. Sonapur College, Sonapur	-	1	15	14	30
13. Panchayat College, Bargarh	-	4	17	28	49
14. Larambha College, Larambha	-	-	17	28	45
15. Jawaharlal College, Patnagarh	-	-	17	20	37
16. Laxminarayan College, Jharsuguda	-	1	22	26	49
17. Bonaigarh College, Bonaigarh	-	-	10	8	18
18. Anchal College, Padampur	-	4	16	8	28
19. Kalahandi College, Bhawani Patna.	-	-	38	65	103
20. Deogarh College, Deogarh	-	5	27	34	66
21. Bhima Bhoi College, Rairakhol	-	-	11	2	13
22. Rourkela Evening College, Rourkela.	-	-	17	-	17
23. G.M. College, Sambalpur	9	20	110	173	312
Grand Total:-	9	63	660	737	1469



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CATEGORY-WISE DISTRIBUTION OF TEACHERS IN  
PROFESSIONAL COLLEGES,

S.No.	Name of Colleges	Prof.	Reader	Lecturer	Others	Total
1	2	3	4	5	6	7
1.	Govt. Training College, Bolangir	-	1	9	13	23
2.	Lajpat Rai Law College, Sambalpur	-	1	20	16	37
3.	U.C.E. Burla	6	16	52	161	235
4.	Govt. Training College, Sambalpur.	-	1	7	16	24
5.	Rourkela Engineering College, Rourkela.	14	25	67	344	450
6.	V.S.S. Medical College, Burla.	18	16	41	87	162
Total:-		38	60	196	637	931
Grand Total at all levels		47	123	856	1374	2400

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SAMBALPUR UNIVERSITY      ANNEXURE-IV  
EXAMINATION RESULTS - 1971

<u>S.No.</u>	<u>Name of the Examination</u>	<u>No. Appeared</u>	<u>No. Passed</u>
1.	B.A. (Hons)	180	138
2.	B.Sc. (Hons)	89	83
3.	B.Com (Hons)	17	15
4.	B.A. (Pass)		
	Annual	702	304
	Second	455	235
5.	B. Com. (Pass)		
	Annual	339	212
	Second	128	88
6.	B.Com (Pass)		
	Annual	75	36
	Second	32	14
7.	B.Ed.	254	252
8.	M.Sc. (Bio-Science)		
	Part-I	14	12
	Part-II and whole	7	7
9.	M.Sc. (Chem)		
	Part-I	31	16
	Part-II	30	28
10.	M.Sc. (Physics)		
	Part-I	32	12
	Part-II and whole	26	21
11.	M.A/M.Sc. (Math)		
	Part I	37	07
	Part-II and whole	33	25
12.	M.A. (History)		
	Part-I	06	02
	Part-II and whole	31	29
13.	M.A. (Economics)		
	Part I	7	-
	Part-II	20	14
14.	M.A. (English)		
	Part- I	10	-
	Part-II and whole	29	21
15.	M.A. (Pol.Science)		
	Part-I	3	1
	Part-II	39	29
16.	M.A. (Oriya)		
	Part -I	06	03
	Part-II and whole	27	19
17.	M.Com.		
	Part-I	-	-
	Part-II and whole	08	03

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EXAMINATION RESULTS - 1972

<u>S.No.</u>	<u>Name of the Examination</u>	<u>No. Appeared</u>	<u>No. Passed</u>
1.	B.A. (Hons)	273	231
2.	B.Sc. (Hons)	117	97
3.	B.Com. (Hons)	25	19
4.	B.A. (Pass)		
	Annual	1039	457
	Second	439	227
5.	B.Sc. (Pass)		
	Annual	397	168
	Second	177	85
6.	B.Com (Pass)		
	Annual	99	43
	Second	43	31
7.	B.Ed.	320	299
8.	M.Sc. (Bio-Sc.)		
	Part-I	15	10
	Part-II and whole	22	14
9.	M.Sc. (Chem.)		
	Part-I	24	12
	Part-II and whole	30	27
10.	M.Sc. (Phy)		
	Part-I	21	03
	Part-II and whole	30	22
11.	M.A./M.Sc. (Math)		
	Part-I	14	03
	Part-II and whole	32	26
12.	M.A. (History)		
	Part-I	05	04
	Part-II and whole	36	33
13.	M.A. (Economics)		
	Part-I	01	01
	Part-II and whole	33	28
14.	M.A. (English)		
	Part-I	01	-
	Part-II and whole	38	34
15.	M.A. (Pol.Sc.)		
	Part-I	12	9
	Part-II and whole	40	33
16.	M.A. (Oriya)		
	Part-I	-	-
	Part-II and whole	32	31
17.	M.Com. (Part-I	05	03
	Part-II and whole	07	05
18.	M.Sc. (Botany)		
	Part-I	-	-
	Part-II and whole	07	03
19.	M.Sc. (Zoology)		
	Part-I	-	-
	Part-II and whole	7	6

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EXAMINATION RESULTS - 1973

<u>S.No.</u>	<u>Name of the Examination</u>	<u>No. Appeared</u>	<u>No. Passed</u>
1.	B.A. (Hons)	301	143
2.	B.Sc. (Hons)	136	86
3.	B.Com (Hons)	29	26
4.	B.A. Pass		
	Annual	1022	921
	Second	481	222
5.	B.Sc. (Pass)		
	Annual	387	180
	Second	119	49
6.	B.Com (Pass)		
	Annual	79	22
	Second	28	13
7.	B.Ed.	348	346
8.	M.Sc. (Bio-Sc.)		
	Part-I	17	11
	Part-II and whole	16	16
9.	M.Sc. (Chem.)		
	Part-I	15	5
	Part-II and whole	26	22
10.	M.Sc. (Physics)		
	Part-I	19	1
	Part-II and whole	30	19
11.	M.A./M.Sc. (Math)		
	Part-I	24	7
	Part-II and whole	25	17
12.	M.Sc. (Zoology)		
	Part-I	6	4
	Part-II and whole	8	8
13.	M.Sc. (Botany)		
	Part-I	8	6
	Part-II and whole	7	7
14.	M.A. (History)		
	Part-I	3	-
	Part-II and whole	49	47
15.	M.A. (Economics)		
	Part-I	4	2
	Part-II and whole	29	23
16.	M.A. (English)		
	Part-I	8	2
	Part-II and whole	49	37
17.	M.A. (Pol.Sc.)		
	Part-I	20	10
	Part II and whole	55	48
18.	M.A. (Oriya)		
	Part-I	-	-
	Part-II and whole	32	27
19.	M.Com.		
	Part I	9	2
	Part II and whole	17	13

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EXAMINATION RESULTS -1974

<u>S.No.</u>	<u>Name of the Examination</u>	<u>No. Appeared</u>	<u>No. Passed</u>
1.	B.A. (Hons)	372	220
2.	B.Sc. (Hons)	188	120
3.	B.Com. (Hons)	42	35
4.	B.A. (Pass)		
	Annual	1111	649
	Second	501	283
5.	B.Sc. (Pass)		
	Annual	317	127
	Second	133	87
6.	B.Com. (Pass)		
	Annual	89	53
	Second	29	16
7.	B.Ed.	311	287
8.	M.Sc. (Biological Sc.)		
	Part-I	1	
	Part-II and whole	31	Result not yet published.
9.	M.Sc. (Chem.)		
	Part-I	-	-do-
	Part-II	31	
10.	M.Sc. (Physics)		
	Part-I	-	-do-
	Part-II and whole	29	
11.	M.A./M.Sc. (Math.)		
	Part-I	4	-do-
	Part-II and whole	39	
12.	M.Sc. (Zoology)		
	Part-I	-	-do-
	Part-II and whole	8	-do-
13.	M.Sc. (Botany)		
	Part-I	-	-do-
	Part-II and whole	8	
14.	M.A. (History)		
	Part-I	1	-do-
	Part-II and whole	68	
15.	M.A. (Economics)		
	Part-I	1	-do-
	Part-II and whole	53	
16.	M.A. (English)		
	Part-I	7	-do-
	Part-II and whole	63	-do-
17.	M.A. (Pol. Sc.)		
	Part-I	-	-do-
	Part-II and whole	59	
18.	M.A. (Oriya)		
	Part-I	-	-do-
	Part-II and whole	35	
19.	M.Com.		
	Part-I	1	-do-
	Part-II and whole	15	

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ANNEXURE-V

N. TOTAL INCOME AND EXPENDITURE OF THE SAMBALPUR UNIVERSITY FROM 1.4.1966 to 31.3.1974

S. No.	Particulars	YEARS							
		1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
1	2	3	4	5	6	7	8	9	10
1.	Maintenance Grant from State Govt.	30,000	5,00,000	20,00,000	20,00,000	20,00,000	20,00,000	25,00,000	25,00,000
2.	Income from fees etc.,								
	i) Examination fee	-	2,24,715	4,46,211	3,94,387	5,36,660	4,34,544	7,20,719	5,92,769
	ii) Tuition fee	-	13,755	-	20,000	48,029	49,106	51,151	49,226
	iii) Affiliation fee	-	13,755	12,851	13,600	10,800	12,750	5,601	3,750
	iv) Other fees	-	50,329	88,937	73,456	60,438	96,966	88,775	59,250
3.	Income from other sources.	-	42,631	76,165	30,303	51,548	79,309	1,92,826	3,32,896
4.	Development Grants from:								
	i) University Grants Commission.	-	-	5,000	1,56,000	13,18,000	15,77,102	14,23,164	18,51,000
	ii) State Govt. Grant	-	-	-	-	5,00,000	10,00,000	3,00,000	5,00,000
	iii) Other sources	-	-	33,200	73,500	1,29,300	1,16,918	2,54,444	3,07,893
	Total:-	30,000	8,31,430	26,62,364	27,61,246	46,54,775	53,66,695	55,36,710	61,96,784

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EXPENDITURE

Particulars	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Salaries of								
a) Teaching Staff	-	-	2,233	84,107	1,87,181	1,70,312	2,63,621	4,91,251
b) Non-teaching staff	-	-	-	4,318	45,858	28,173	55,570	86,676
Administrative	17,150	2,21,815	3,12,099	2,81,642	4,19,541	5,69,271	5,01,271	6,78,120
Library books etc., including Library staff	-	14,712	12,478	81,338	3,79,227	1,45,810	2,68,804	1,51,895
Equipments (including furniture & fixtures)	-	73,586	23,068	27,630	2,86,848	1,27,707	2,42,443	2,45,000
Buildings-academic and others.	-	-	30,750	11,24,421	26,26,031	15,00,000	23,45,337	26,90,444
Scholarship (Research grants)	-	-	-	22,638	36,000	27,470	51,430	1,04,730
Other items	-	3,75,073	8,07,652	9,35,755	14,70,625	18,74,360	20,26,123	17,74,172
<b>Total :-</b>	<b>17,150</b>	<b>6,85,186</b>	<b>11,82,280</b>	<b>25,61,849</b>	<b>54,51,311</b>	<b>44,43,103</b>	<b>57,54,599</b>	<b>62,22,288</b>

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SPILL OVER STATEMENT

ANNEXURE- VI

SUMBALPUR UNIVERSITY

S.No.	Name of the Scheme	Total approved Cost.	UGC's Share	Amount paid upto 31.3.1974	Spill over to V Plan	Grants paid after 31.3.1974	Remarks
1	2	3	4	5	6	7	8
1.	Construction of Men's Hostel.	6,52,000	1,80,000	1,50,000	30,000	15,000	
2.	Living Room furniture for two students hostels.	40,000	23,750	--	23,750	20,000	
3.	Construction of Vice-Chancellor's House and staff quarters.	8,21,500	2,80,000	2,70,000	10,000	-	
4.	Construction of Staff Quarters (20 Bachelor Flats.)	3,42,500	1,71,250	1,00,000	71,250	-	
5.	Construction of Men's Hostel - 2nd Boys' Hostel.	5,85,600	2,91,800	2,70,000	21,800	15,000	
6.	Living Room furniture for the Hostel.	25,000	12,500	--	12,500	10,000	
7.	Construction of Women Students Hostel.	3,77,520	1,50,000	1,45,000	5,000	-	
8.	Construction of Teachers Hostel.	4,92,600	3,00,000	1,20,000	1,80,000	1,70,000	
9.	Construction of Humanities Block.	4,72,418	3,00,000	1,50,000	1,50,000	1,25,000	
10.	Construction of Biology Block.	3,94,900	3,50,000	3,30,000	20,000	17,000	
11.	Construction of Mathematics Block.	2,64,531	2,00,000	1,90,000	10,000	7,000	
12.	Construction of Chemistry Block.	3,75,143	3,50,000	3,47,000	3,000	--	



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	1	2	3	4	5	6	7	8
13. Construction of Physics Block.			3,85,376	3,50,000	3,47,000	3,000	-	
14. Publication of Research Work.			10,000	5,000	5,000	4,000	-	
15. Setting up of Employment Information-cum-Advisory Bureau.			15,200(NR)	15,200	5,298	9,902	-	
16. Purchase of equipment for Science Departments.			6,45,000	6,45,000	6,00,000	*	-	The balance amount lapsed with the end of Fourth Plan
17. Purchase of Library books and journals.			6,52,500	6,52,000	5,25,000	*	-	-do-
18. Appointment of additional staff in Humanities Departments.			7,37,418	7,37,418	6,65,000	72,418	60,000	
19. Appointment of additional staff in Science Departments.			8,70,000	8,70,000	6,63,000	2,07,000	2,01,000	
20. Appointment of Staff in Central Library.			48,462	24,231	20,000	4,231	4,231	
Grand Total:-			82,05,668	59,13,649	49,02,298	8,38,851	6,48,231	

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SAMBALPUR UNIVERSITY  
FINANCIAL IMPLICATIONS (NON-RECURRING)

ANNEXURE VII  
(FIGURES IN LAKHS Rs.)

S.No.	Departments	Books				Equipment				Building				Others
		I	II	III	Total	I	II	III	Total	I	II	III	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>A. FACULTY OF SCIENCE</b>														
1.	Physics	0.13	0.06	0.06	0.25	1.50	0.75	0.75	3.00	-	-	0.025	0.025	
2.	Chemistry	0.10	0.05	0.05	0.20	1.00	0.50	0.50	2.00	-	-	0.025	0.025	
3.	Biological Scs.	0.40	0.18	0.17	0.75	0.75	0.38	0.37	1.50	-	-	-	-	0.25 Museum
														0.50 Animal House
														0.20 Field Trips
														0.10 Herbarium
4.	Mathematics	0.25	0.13	0.12	0.50	-	-	-	-	-	-	0.025	0.025	0.40 Culture Room
														0.40 Botanical Garden
		0.88	0.42	0.40	1.70	3.25	1.63	1.62	6.50	-	-	0.075	0.075	1.85
<b>B. FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES</b>														
1.	English	0.13	0.06	0.06	0.25	0.25	0.13	0.12	0.50	-	-	0.175	0.175	-
2.	Oriya	0.10	0.05	0.05	0.20	-	-	-	-	-	-	0.025	0.025	0.20 Developmental res. Survey work.
3.	History	0.10	0.05	0.05	0.20	-	-	0.10	0.10	-	-	0.025	0.025	0.50 Museum Bldg. 0.20 Collection of Manuscripts.
4.	Pol. Science	0.13	0.06	0.06	0.25	-	-	-	-	-	-	0.025	0.025	
5.	Economics	0.20	0.10	0.10	0.40	0.13	0.06	0.06	0.25	-	-	0.275	0.275	0.10 Use of Computers services 0.10 Travelling Cost
		0.66	0.32	0.32	1.30	0.38	0.19	0.28	0.85	-	-	0.525	0.525	1.10
<b>C. NEW DEPARTMENTS</b>														
1.	Sociology & Anthropology.	0.25	0.13	0.12	0.50	0.13	0.06	0.06	0.25	0.50	0.25	0.250	1.000	0.10 Field Trips
2.	Home Science	0.13	0.06	0.06	0.25	0.50	0.25	0.25	1.00	0.50	0.25	0.250	1.000	
3.	Statistics	0.25	0.13	0.12	0.50	0.13	0.06	0.06	0.25	0.50	0.25	0.250	1.000	
4.	Lib. Science	0.13	0.06	0.06	0.25	0.13	0.06	0.06	0.25	-	-	0.500	0.500	
		0.76	0.38	0.36	1.50	0.89	0.43	0.43	1.75	1.50	0.75	1.250	3.500	0.10

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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D. OTHERS.

1. Central library	3.00	2.00	2.00	7.00	-	-	-	-	-	2.00	1.50	1.50	5.00	-	Research F'ships
2. Central Workshop	-	-	-	-	0.75	0.38	0.37	1.50	1.10	-	-	-	1.10	-	
3. Men's Hostel(2)	-	-	-	-	-	-	-	-	4.50	4.50	-	-	9.00	-	
4. Women's Hostel(1)	-	-	-	-	-	-	-	-	4.50	-	-	-	4.50	-	
5. Canteen	-	-	-	-	-	-	-	-	1.20	-	-	-	1.20	-	
6. Staff Quarters	-	-	-	-	-	-	-	-	1.25	3.60	2.00	-	6.85	-	
7. Class IV Quarters	-	-	-	-	-	-	-	-	-	-	1.00	-	1.00	-	
8. Guest House	-	-	-	-	-	-	-	-	1.50	-	-	-	1.50	-	
	<u>3.00</u>	<u>2.00</u>	<u>2.00</u>	<u>7.00</u>	<u>0.75</u>	<u>0.38</u>	<u>0.37</u>	<u>1.50</u>	<u>16.05</u>	<u>9.60</u>	<u>4.50</u>	<u>30.15</u>	<u>6.00</u>		
Grand Total (A+B+C+D)	<u>5.30</u>	<u>3.12</u>	<u>3.08</u>	<u>11.50</u>	<u>5.27</u>	<u>2.63</u>	<u>2.70</u>	<u>10.60</u>	<u>17.55</u>	<u>10.35</u>	<u>6.350</u>	<u>34.250</u>	<u>3.05</u>	<u>6.00</u>	

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SAMBALPUR UNIVERSITY

ANNEXURE- VIII

DETAILS OF ADDITIONAL STAFF RECOMMENDED BY THE VISITING COMMITTEE.

S.No.	Departments	I				II				III				Remarks
		P	R	L	O	P	R	L	O	P	R	L	O	
<b>A. FACULTY OF SCIENCES.</b>														
1.	Physics	-	1	-	-	-	-	1	-	-	-	-	-	-
2.	Chemistry	-	1	-	-	-	-	1	-	-	-	-	-	-
3.	Biological scs.	-	1	-	-	-	-	1	-	-	-	-	-	6* *1. Museum Keeper-1 2. Museum Asstt.-1 3. Animal House & Insectory Keeper. -1 4. Asstt. Animal House and Insectory keeper -1 5. Technical Asstt. 1 6. Herbarium Keeper. -1
4.	Mathematics	-	1	-	-	-	-	-	-	-	-	-	-	-
		-	4	-	-	-	-	3	-	-	-	-	-	6
<b>B. FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES.</b>														
1.	English	-	1	-	-	-	-	1	-	-	-	-	-	-
2.	Oriya	-	1	-	-	-	-	1	-	-	-	-	-	-
3.	History	-	1	-	-	-	-	-	2*	-	-	-	-	*1. Photographer. 1 2. Curator .1
4.	Political Science	-	1	-	-	-	-	1	-	-	-	-	-	-
5.	Economics	-	1	-	-	1	-	-	2*	-	-	-	-	*Statistical Asstt. 2
		-	5	-	-	1	-	3	4	-	-	-	-	-

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S.No.	Departments	I				II <sup>2</sup>				III				Remarks
		P	R	L	O	P	R	L	O	P	R	L	O	
<u>C. NEW DEPARTMENTS</u>														
1.	Sociology & Anthrc- pology.	1	-	2	-	-	1	-	-	-	2	1	-	
2.	Home Science	-	1	1	-	-	-	1	-	-	-	-	1*	*Iab. Asstt.
3.	Statistics	-	-	-	-	1	1	-	-	-	-	2	1*	*Iab. Asstt.
4.	Library Science	-	-	-	-	-	1	1	-	-	-	1	-	
		1	1	3	-	1	3	2	-	-	2	4	2	
<u>D. OTHERS</u>														
1.	Central Workshop	-	-	-	-	-	-	-	3*	-	-	-	-	*Workshop Suptd. -1 2. Electrician. -1 3. Glass -1 Blower/ Carpenter
2.	Development Officer	-	-	-	1*	-	-	-	-	-	-	-	-	
3.	Health Centre	-	-	-	**	-	-	-	-	-	-	-	-	**Usual staff needed for the Health Centre.
		-	-	-	1	-	-	-	3	-	-	-	-	
Grand Total:- (A+B+C+D)		1	10	3	1	2	3	8	7	-	2	4	8	

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UNIVERSITY GRANTS COMMISSION

P A R T - IV

Report of the Visiting Committee appointed by the University Grants Commission to assess the development requirements of the Berhampur University for the Fifth Five Year Plan period:

The University Grants Commission appointed a Committee to assess the development requirements of Berhampur University for the Fifth Five Year Plan period.

2. The Committee visited the University on 23rd and 24th January, 1975. It had preliminary discussions with the Vice-Chancellor, the Registrar and other officers of the University on 23rd January, 1975. Thereafter, the members of the Committee discussed in two groups the Fifth Plan proposals of the various departments with the concerned staff. The Committee also had a chance to discuss the general Fifth Plan programmes of the University with the Heads of the departments separately. It also met students and teachers representatives. The Committee also visited the buildings constructed with the assistance of the Commission as well as those constructed with the assistance of the State Government. In the final round of discussions with the Vice-Chancellor, the Committee had an overall picture of the continuing schemes and the priorities indicated by the University in its Fifth Plan proposals. The report of the Committee follows:-

3. Basic Facts and Figures:

3.1. The Berhampur University was established in the year 1967 with its territorial jurisdiction extending over the districts of Ganjam, Koraput and Phulbani in the State of Orissa. The district of Ganjam is partly and the other two districts are mostly inhabited by the Adivasis, scheduled castes and scheduled tribes. With the incorporation of the University on 1st January, 1967, eleven colleges, including the Medical College at Berhampur which were previously under the jurisdiction of the Utkal University, came under the jurisdiction of the Berhampur University. At that time postgraduate teaching was being done only in one college i.e. Khallikhote College, Berhampur.

3.2. The University started functioning with the department of Labour and Social Welfare w.e.f. 4th October, 1967 and steps were taken to set up three more postgraduate departments, viz, Political Science, History and Oriya and a central library in a rented building, only a few months before the visit of the Fourth Plan Visiting Committee.

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3.3 Campus: - The Campus is located, at a distance of six miles from Berhampur town and three miles from Gopalpur on sea, over a land measuring about 250 acres. The construction of administrative block, science block, humanities block, 2 boys hostels for 130 boarders, ladies' hostel for 50 boarders and student home and some staff quarters have been completed and all the 11 postgraduate departments are now functioning in the University Campus. The construction work of the second science block, guest house, health centre and some staff quarters, both for teaching and non-teaching staff, are in progress. The science block has a built up area of 40,144 sq.ft. meant for Physics and Chemistry departments. Presently this accommodation is also being shared by Botany and Zoology departments. It has two lecture theatres, four class-rooms, 10 dark rooms and 12 laboratory halls. The humanities block has a built up area of 49023 sq.ft. and the departments of Oriya, labour and social welfare, political science, history, mathematics and economics are housed in it.

3.4 Postgraduate Departments: - At present, the following post-graduate teaching departments (year-of establishment indicated against each) are being run under the direct management of the University.

<u>Departments:</u>	<u>Year of Establishment:</u>
Labour and Social Welfare	1967
History	1968
Political Science	1968
Oriya	1968
Physics	1969
Botany	1969
Zoology	1969
Chemistry	1972
Mathematics	1972
Economics	1972
Journalism	1974

3.5 Affiliated Colleges:- The University has at present 19 colleges affiliated to it. Of these colleges, one is Law College, one Medical College, one training College and the remaining are arts/science/commerce colleges.

3.6 Admission qualifications:- For admission to postgraduate courses students with honours at the undergraduate level securing 45% marks are given preference.

3.7 Medium of Instruction:- The medium of instruction and examinations at all levels in Arts, Science and Commerce subjects is English.

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3.8 Enrolment: - The enrolment at various levels in the postgraduate departments of the University during 1974-75 is given in Annexure-I. It would be observed that of the total enrolment of 348, 297 were boys and 51 were girls. The total enrolment in colleges during the year 1974-75 was 9716 comprising 8353 boys and 1363 girls. The faculty-wise break-down of enrolment in colleges is given in Annexure-II. The total number of research scholars working for their Ph.D. degree in the various departments is given in Annexure-III.

3.9 Examination Results: - Examination results for the various courses of the University during the period from 1969-70 to 1973-74 are given in Annexure-IV.

During the period from 1968-69 to 1973-74, 11 candidates were awarded Ph.D. degree in the faculty of science and 1 candidate in the Faculty of humanities. The year-wise break-down is given below:-

<u>Year:</u>	<u>Humanities</u>	<u>Science</u>	<u>Total:</u>
1968-69	-	-	-
1969-70	-	3	3
1970-71	-	-	-
1971-72	-	2	2
1972-73	-	2	2
1973-74	1	4	5

3.10 Teachers: - As stated earlier, the University has at present 11 postgraduate teaching departments. The strength of the teaching staff in the departments is given below:-

<u>S.N.</u>	<u>Departments</u>	<u>Strength of Teachers</u>
1.	Mathematics	4
2.	Physics	6
3.	Chemistry	4
4.	Botany	6
5.	Zoology	5
6.	Political Science	4
7.	History	4
8.	Labour & Social Welfare	4
9.	Oriya	4
10.	Economics	4
11.	Journalism	2

During the last Plan period the U.G.C. sanctioned one Reader and two Lecturers for each of these departments excluding journalism which has been set up during 1974. Thus the total number of posts sanctioned by the Commission during the Fourth Five Year Plan was 10 Readers and 20 Lecturers. But, subsequently, in the beginning of this



Plan, the University created one post of Professor in all the departments and one post of Reader in some of the departments in anticipation of Commission's approval. Committee's recommendations regarding these posts are given later in the report.

3.11 Procedure for Selection of Teachers:- The teachers in the university departments are appointed through a selection committee as per Acts and Statutes of the University. The vacancies are advertised in all India papers. There is no provision for filling up posts by promotion. All applicants have to face the selection committee.

3.12 Workload of Teachers:- Broadly speaking, six periods each of 60 minutes are devoted to each paper for lecture work and a similar number of periods is allowed for practical work, wherever required. The general pattern of workload per teacher per week is: Professor - 10 periods; - Reader - 12 periods; - Lecturer - 15 periods.

3.13 Income and Expenditure of the University:- During the period from 1967-68 to 1973-74 the University had a total income of Rs.2,18,78,469/- against which the University had incurred expenditure amounting to Rs.2,25,52,942/-. During the Fourth Plan period the University, thus, had an over all deficit of more than Rs.7.00 lakhs. It is interesting to note that every alternate year has been a year of deficit for the university since 1969-70. The detail of total income and expenditure year-wise are given in Annexure-V.

4. Progress of Fourth Plan Schemes:- The Commission during the Fourth Five Year Plan assisted the university towards the establishment of the postgraduate departments of chemistry, mathematics, physics, botany, zoology, labour and social welfare, political science, economics, history and oriya. Besides, the Commission also provided assistance for the construction of humanities block, science block, student home, girls' hostel, two boys' hostels, purchase of library books and journals, furniture and science equipment, establishment of study centre, purchase of a bus, employment of trained coaches and construction of staff quarters.

For the proposals accepted by the U.G.C. the total provision was Rs.96.38 lakhs against which the Commission's share was Rs.74.06 lakhs. The grants released upto the end of the Fourth Plan period amounted to Rs.52.29 lakhs. The actual spill-over to be carried to the Fifth Plan amounts to Rs.20.44 lakhs. The balance amount due to the University in respect of the schemes approved by the Commission during the Fourth Five Year Plan period would, thus, be the first charge on the Fifth Plan allocation of Rs.1.00 crore. A statement giving details of the schemes approved grant released upto 31st March, 1974, grants paid thereafter and the spill-over to the Fifth Plan is given in Annexure-VI.

Regarding the buildings approved by the Commission during the Fourth Five Year Plan the position is that humanities block, student home, science block, ladies' hostel, 'D' type quarters, 100 seated boys hostel, boys' hostel for postgraduate students and study centre have been completed and occupied.

5. Fifth Plan proposals: - The University has submitted proposals to the UGC envisaging an outlay of Rs. 3.93 crores spread over a period of five years beginning from the financial year 1974-75 with UGC share as Rs. 1.25 crores, against an allocation of Rs. 1.00 crore.

5.1 During the course of discussion with the Vice-Chancellor and the officers of the University, the following points were indicated.

- (a) The area under the jurisdiction of the University is mostly inhabited by Adivasis and other socially deprived sections of the community. Since no positive efforts have yet been made to provide adequate related facilities to these people, this region has remained backward. The Vice-Chancellor pointed out that while the national average in respect of higher education in India, is 6 per thousand, the corresponding figure for Orissa is 2.5 and corresponding figure for the Berhampur University area is 1.8. Therefore, to remove these regional imbalances and to get this region at par with other developed areas the University needs every support and encouragement from the State Government and the U.G.C.
- (b) This area is very rich in industrial wealth. It has a long sea coast with the port of Gopapuri on sea and the Chilka Lake, the sulphur spring at Taptapani, dense forests in the districts of Koraput and Phulbani and the rich cultivable land. The need of this region is really the development of the right type of human material to exploit the mineral, forest and water wealth for the benefit of this region and the country at large.

In view of this, the Vice-Chancellor said, that liberal assistance may be made available by the U.G.C. to the existing colleges for the development programmes during the Fifth Plan period after waiving the condition of minimum enrolment.

- (c) The Vice-Chancellor stated that although the University had envisaged opening of some more postgraduate departments like Marine Biology,

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M.B.A. and Linguistics during the Fourth Plan period, the U.G.C. advised the University to open these subjects during the Fifth Plan. Accordingly these have been included on priority basis in the Fifth Plan proposals. Some basic subjects like English and Commerce are also scheduled to be opened during the early years of this plan as also recommended by the Fourth Plan Visiting Committee.

- (d) The University has started the construction of the second science block, guest house, health centre and some staff quarters both for teaching and non-teaching staff. Even after the completion of these staff quarters many more staff quarters will have to be provided, since the employees of the University are undergoing lot of inconvenience because most of them are compelled to live at Berhampur at a distance of six miles from the Campus. In view of meagre transport facilities they are not able to reach the Campus in time, thereby causing considerable dislocation in work both on the administrative as well as on the teaching side. That apart, the University is presently compelled to pay them house rent allowance and conveyance charges. The university depends almost entirely on the State Government and the UGC for the implementation of development programmes and construction of buildings. The State Government is providing an annual block grant of Rs.20.00 lakhs for meeting the running expenses of the University since 1971-72. The government has also promised to increase the block grant during the Fifth Plan period but despite that the University's financial position will continue to remain critical.
- (e) The University has introduced internal assessment system at the undergraduate level for the present, which has increased the financial burden of the university. Besides, the central evaluation of answer scripts has also been introduced with code numbers. The University has also in view to introduce the semester system at the postgraduate level from the next session. Under this system, the evaluation will be made partly external and partly internal measuring the performance with numerical marks. To provide for supervision of the standard of internal assessment, a scheme for appointment of inspectors is under consideration. If necessary funds are made available by the U.G.C. the scheme will be put into operation.

- (f) The Vice-Chancellor stated that for the amount released after 31.3.1974, the Commission has indicated that this would be the first charge on the Fifth Plan allocation. This was not reasonable for the University expected that the whole amount will be available during the Fifth Plan period for which expenditure has actually been made during the Fourth Plan against the allocation of that Plan period. The Committee may look into these problems and recommend generous grants for the University during the Fifth Plan period.
- (g) The University has submitted proposals involving an expenditure of Rs.2.10 lakhs (Plan) and Rs.183 lakhs (non-plan). This estimates a total Plan assistance of Rs.1.25 crore from the U.G.C. These proposals are the University's minimum requirements and cannot be curtailed any further.
- (h) The University wants to open new departments and to strengthen the existing departments and, therefore, requires assistance from the U.G.C. for additional teaching, accommodation, staff, books and equipment, strengthening of the University Press and equipment for the Central Workshop.
- (i) The cost of construction has, during the last three years, almost doubled and the University is indebted to the FWD to the tune of Rs.30.00 lakhs.

#### 6. Observations and Recommendations:

6.1 The number of periods allotted to lecture work in each paper is on the high side and the students are hardly left with any time for self study or for consulting the library. Not only that, if teachers keep busy only with lecturing or conducting practical work, they obviously get scanty time for pursuing research. This partly explains why the research output in the departments is low. It would, therefore, be advisable if the contact periods are reduced immediately at least by 50%.

6.2 The University proposes to introduce special papers in a subject. The Committee felt that such a policy may not be generally adopted and only such special papers may be introduced which are relevant to the research activities of the departments and which suit the needs of the community.

6.3 The University has already set up a department for journalism, although the proposal has been included in the Fifth Plan proposals sent to the U.G.C. The Committee noted that before setting up this

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department the concurrence of the State Government was not obtained. The Committee would like to emphasize that new departments should only be established after obtaining the concurrence of the State Government. The University also proposes to open a number of new subjects. The Committee would, however, like to add that it would not be possible to provide all teaching departments in all the Universities in the State. The Committee would also stress upon the need of showing consideration, while making new admissions to students of other universities, particularly State Universities, in the departments which have already been started or which are yet to be set up during the Fifth Plan period.

6.4 The Committee noted that the University has already appointed professors in all the old departments and readers in some of them on the presumption that Commission's assistance would be made available towards these posts. During the course of discussions with the Vice-Chancellor it was made clear that in case, the Committee recommends professorships and readerships for some or all of the departments, the posts will be supported by the Commission only during the Fifth Plan period and that too, from the date on which the Committee's recommendations are accepted by the Commission. The Committee would, therefore, like to emphasize that the posts of professors/readers recommended later in the report are in addition to the posts sanctioned by the Commission during the Fourth Plan period and may be filled through open selection after adopting the normal selection procedure. In case, the present incumbents have been appointed on an ad-hoc basis, they may be considered along with other applicants for appointment of these posts.

6.5 The Committee noted that as yet no programme of interdisciplinary research or studies has been undertaken by the University, nor there is a proposal of the type during the Fifth Plan. It would, therefore, be desirable if not only inter-departmental studies but inter-university collaborative programmes are introduced which would be beneficial not only to the State of Orissa and its people but also for the country as a whole.

6.6 Regarding the purchase of equipment, the Committee suggest that the University may appoint a Committee for purchasing items of equipment each costing more than Rs.30,000/- in consultation with the different departments. The intention of the Committee in making this suggestion is that by instituting this procedure firstly, duplication in the purchase of equipment would be avoided and secondly, the resources of all the departments would be pooled together and used economically. Items, of course, costing individually less than Rs.30,000/- may be purchased by the department concerned.

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6.7 Regarding the purchase of books, the Committee suggests that the book grant may be utilized between the departmental libraries and the Central Library on 50:50 basis and 1/3 of the total book grant may be used for purchasing text-books. The Committee would also like to add that it would be in the interest of the departments and the University if, book grant is spent in phases spreading over the entire Fifth Five Year Plan period. While the back volumes of journals may be purchased out of the grant allocated by the Commission for the purchase of books and journals, current journals may be purchased by the University from the block grant provided by the State Government.

6.8 The Committee is happy to note that the buildings constructed by the Berhampur University were better than those constructed in other universities of the State. Their maintenance was also up to the mark.

6.9 It is gratifying to note that the University has introduced the semester system at the postgraduate level and the University proposes to introduce reforms in the existing examination system. The Committee would, however, like to emphasize that the present system of evaluation by external examiners, was not in conformity with the reforms required to be introduced for improving the system. The University should, therefore, adopt complete internal assessment by the teachers who are teaching along the lines indicated in the 'Examination Reforms - A Plan of Action'. This would not only cut down the cost of examination but would also arouse confidence in the students for their teachers.

6.10 The University has put up proposals involving an outlay of Rs.210 lakhs as Plan expenditure and Rs.183 lakhs as non-plan expenditure. The concept of non-plan expenditure was explained to the Vice-Chancellor and it was made clear that the Commission does not deal with the non-plan expenditure in respect of State Universities and, therefore, whatever expenditure would be involved in implementing the recommendations of the Committee would be within the Fifth Plan allocation.

6.11 The amenities provided for the students residing at the Campus are inadequate. Because of the distance of the University campus from Berhampur town, from where quite a good number of students come, the university has to be essentially a residential university. The students will have to be provided additional hostel accommodation.

6.12 The facilities for medical care will have to be provided to the students. The playgrounds have not been developed and so the students are deprived of playing games on the campus in the evening. The Committee is given to understand that the Commission's scheme for providing assistance to the universities and colleges for the development of sports facilities is under review. The Committee recommends that when the scheme is finalised and the policy of the

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Commission for the Fifth Plan is decided the Berhampur University may be assisted for providing facilities for various games and sports and for the development of playgrounds. The Commission may also consider then the proposal of the University for providing a gymnasium as soon as funds are available.

6.13 The Committee would also add that the additional teaching and technical posts mentioned later in the report are being recommended on the specific condition that w.e.f. the date Commission's assistance ceases i.e. from 1.4.1979, these will be maintained by the State Government and that at no stage the number of teaching and technical staff strength would be less than those existing as on 1.4.1974 plus the additional posts recommended now. If this happens, the Committee recommends that in the Sixth Plan the Commission may take appropriate steps to ensure that this is not repeated.

7. The requirements of individual departments are discussed below:

Faculty of Science:

7.1 Department of Chemistry:- The present intake of the department is 12 students in M.Sc. (previous) and 12 students in M.Sc. (final). The major areas of specialisation in the departments are Physical and Organic Chemistry. There are four teachers (1 Professor and 3 Lecturers) in the department, of whom all possess research qualifications. The professor belongs to the field of Inorganic Chemistry. The department has published so far 20 papers in foreign journals and 96 papers in Indian journals. It has produced 9 Ph.Ds. Two research scholars are working in the department and are getting junior research fellowships from the University Grants Commission. The department has a library which has in stock 500 volumes. It is subscribing to 12 journals. A part-time employed looks after the library. There is no workshop, but the department has some facilities for glassblowing. The thermostats being used in the laboratory for Physico Organic work have been fabricated in the department. The total value of the equipment possessed by the department is estimated to be Rs.1,93,000/-.

This is a fairly strong department and its research output is satisfactory. The department wishes to give more emphasis to applied research. The department is also collaborating with the forest department, Berhampur and is working on the solution of the problem relating to the production of "SAL SEED Oil" specially regarding the production of Pea-nut butter.

In view of the research and academic programmes of the department, the Committee recommends that the following facilities may be provided to it during the Fifth Plan period:

- |                         |   |
|-------------------------|---|
| (1) Teaching Staff:     | Professor - 1; (Organic Chemistry) -<br>Reader - 1; (Physical Chemistry) - &<br>Lecturer - 1. |
| (2) Books and Journals: | Rs.1.00 lakh.   |
| (3) Equipment:          | Rs.2.00 lakhs.  |
| (4) Furniture:          | Rs.10,000/-.  |

7.2 Department of Physics:- The present intake of the department is 16 students in M.Sc. (previous) and the same number of students in M.Sc. (final). There are six teachers ( 1 Professor, 2 Readers and 3 Lecturers ) in the department, all of whom possess research qualifications. The major areas of research in the department are Theoretical Solid State Physics, Theoretical Nuclear Physics and Theoretical High Energy Physics. The Professor, one Reader and one Lecturer belong to the field of Theoretical Solid State Physics, one Reader and one Lecturer belong to the field of Theoretical Nuclear Physics and one Lecturer belongs to the field of Theoretical High Energy Physics. The department has published 46 papers in Indian journals and five papers in foreign journals. Two research workers are at present working in the department. They have been awarded Junior Research Fellowship by the Berhampur University out of the lump sum provided by the U.G.C. There is a departmental library which has a stock of 575 books. A part-time employee looks after the library. There is no workshop attached to the department. The department has not produced any Ph.D. so far. The department has so far concentrated only on theoretical physics and no effort has been made to develop Experimental Physics. The total value of the equipment possessed by the department is Rs.2,40,000/- approximately. The Committee suggests that the department may introduce experimental Solid State Physics. The department is not subscribing to any journals. The Committee recommends that the following facilities may be provided to the department during the Fifth Plan:-

- |                         |   |
|-------------------------|---|
| (1) Teaching Staff:     | Professor - 1; (Nuclear Physics) -<br>Reader - 1; (Experimental Solid State<br>Physics) & Lecturer - 1. |
| (2) Books and Journals: | Rs.1.00 lakhs.  |
| (3) Equipment:          | Rs.1.5 lakhs.   |
| (4) Furniture:          | Rs.15,000/-.  |

7.3 Department of Botany:- The present intake of the department is 16 students in M.Sc. (previous) and 16 students in M.Sc. (final). There are six teachers ( 1 Professor, 2 Readers and 3 Lecturers ) in the department. All of them possess research qualifications. The major areas of specialisation of the department are Algal



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Physiology, Plant Physiology, Ecology, Plant Taxonomy and Cytogenetics. The department has published 13 papers so far. Four junior research fellowships are available to the department. At present 5 research workers are working in the Department for their Ph.D.

The department is at present housed in another building but will soon shift to its new building which is nearing completion. The course work with M.Sc. students is satisfactory and the research work is also commensurate with the facilities available. No current journal is available in the department at present and the back volumes are very inadequate. The space for the Botanical Garden has been earmarked but no money has been made available for its development. Studies on the Flora of Southern Orissa have been rightly taken up and the work on Marine Forms in the neighbourhood will be desirable. At present increase in number of students is not necessary. It will be desirable if the department directs its attention to work on Marine Forms and prepares a base for extending the study of this branch in the next Plan period by establishing a Marine Field Laboratory. The total value of the equipment possessed by the department is Rs.2.25 lakhs approximately. The Committee found that proper arrangement for storage of water is lacking and would, therefore, suggest that proper arrangement for storage to ensure constant water supply to the laboratory and to the Botanical Garden should be made immediately. The Committee recommends that the following facilities may be provided to the department during the Fifth Plan period:-

- (1) Teaching Staff: Professor - 1 (preferably in Cytogenetics) - Reader - 1 (preferably in Taxonomy) and Lecturer - 1.
- (2) Books and Journals: Rs.75,000/-.
- (3) Equipment: Rs.1.20 lakhs.
- (4) Air-conditioning of one small room of the size of 10' x 10'. Rs.20,000/-.
- (5) Museum: (including showcase & almirahs). Rs.20,000/-.
- (6) Herbarium: Rs.10,000/-.
- (7) Botanical Garden: Rs.30,000/-.
- (8) Fern House: Rs.20,000/-.
- (9) Field Trips: Rs.20,000/-.

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(10) Furniture: - Rs.10,000/-.

(11) Technical Staff:

(a) Herbarium & Museum Keeper (B.Sc. with experience in Museology). 1

(b) Artist-cum-photographer. 1

7.4 Department of Zoology: - The present intake of the department is 16 students in M.Sc. (previous) and 16 students in M.Sc. (final). There are five teachers ( 1 Professor, 1 Reader and 3 Lecturers ) in the department, of whom three possess research qualifications. The major areas of specialisation in the department are Cytology and Cytochemistry, Physiology and Biochemistry and Physiology of reproduction. Three Junior Research Fellowships are available to the department. The department has published so far 53 papers. The department has a library which has a stock of 1117 volumes. It has been subscribing to 21 journals. The library is being managed by a Lab. Assistant who has been given a part-time assignment. The total value of the equipment possessed by the department is Rs.2,00,000/- approximately. The Committee recommends that the following facilities may be provided to the department during the Fifth Plan period:-

- (1) Teaching Staff: Professor - 1; Reader - 1 and Lecturer - 1. (the Professor should be in Marine Biology and the Reader in Entomology or Animal Ecology or Fisheries or Endocrinology).
- (2) Books and Journals: Rs.75,000/-.
- (3) Equipment: Rs.1.20 lakhs.
- (4) Museum: (with furniture & accessories). Rs.20,000/-.
- (5) Animal House: (Insectry, building with fittings and fixtures). Rs.50,000/-.
- (6) Field Trips: Rs.20,000/-.
- (7) Drosophila Culture Rooms: (1,000 sq.ft. including provision for temperature control). Rs.20,000/-.

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(8) Furniture: Rs. 10,000/-.

(9) Technical Staff:

- (a) Museum Keeper 1  
(B.Sc. in Biological Sciences with diploma in Muscology or M.Sc. in Muscology).
- (b) Animal House and Insectry Keeper - 1  
(B.Sc. in Biological Sciences with knowledge of animal/insectry breeding).
- (c) Technical Asstt. 1  
with knowledge of Taxidermy).  
(B.Sc. in Biological Sciences with training in Taxidermy).

7.5 Department of Mathematics: - The present strength of the department is five students in M.Sc. (previous) and four in M.Sc. (final), against the sanctioned intake of 16 students in each class. There are four teachers (1 Professor, & 3 Lecturers) in the department, of whom only one possesses research qualifications. The major areas of specialisation are: (i) Summability Methods and Applications; (ii) Functional Differential Equations and (iii) Universal Algebra. The department has neither produced any Ph.D. nor published any research paper. It has a library which has a stock of 700 books.

This is a fairly weak department. The research output is practically nil. The head of the department does not even possess research qualification. The Committee recommends that the person appointed on the posts recommended later should possess at least research qualifications. The Committee recommends that the following facilities may be provided to the department:-

- (1) Teaching Staff: Professor - 1. (preferably in Universal Algebra) and Reader - 1. (preferably in Applied Mathematics).
- (2) Books and Journals: Rs. 75,000/-.
- (3) Equipment: Rs. 20,000/-.
- (4) Furniture: Rs. 5,000/-.

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Humanities and Social Sciences:

7.6 Department of History:- The present intake of the department is 32 students in M.A. (previous) and 21 students in M.A. (final) against the sanctioned intake of 32 students in each class. There are four teachers (1 Professor, 2 Readers and 1 Lecturer) in the department, of whom three teachers possess research qualifications. The department offers specialisation in two branches Medieval Indian History and Modern Indian History. The department has not produced any Ph.D. so far. It has published so far 58 papers and 8 standard books on Indian History. Three junior research fellowships are available in the department. The department has a library which has 1863 books in stock. It is subscribing to 43 journals.

The department is doing work along conventional lines. At the same time the pressure of students is likely to increase. This pressure should be resisted to the maximum extent possible. The department may concentrate on the study of regional history, preferably in collaboration with the department of Oriya.

The department proposes to open a research unit on Medieval Orissan History. A large number of Persian documents pertaining to Orissa are available in the archives at Hyderabad, Tamilnadu and Bhubaneswar. The department also proposes to undertake research work on Rajas and Zamindars of Orissa from 15th to 18th century, and wants to prepare a comprehensive history on this subject based on original material. The Committee recommends that the following facilities may be provided to the department:-

- |     |  |   |
|-----|--|---|
| (1) | Teaching Staff:  | Professor - 1 (preferably in Medieval Indian History) - Reader - 1 (preferably in Modern Indian History). |
| (2) | Books and Journals:  | Rs. 50,000/-.   |
| (3) | Facilities for undertaking research projects on (i) Medieval Orissan History and (ii) Rajas and Zamindars of Orissa. | Rs. 45,000/-.   |
| (4) | Purchase of Manuscripts:   | Rs. 10,000/-.   |
| (5) | Stationery:  | Rs. 5,000/-.  |
| (6) | Printing Expenses:   | Rs. 2,000/-.  |

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7.7 Department of Political Science:- The present intake of the department is 31 students in M.A. (previous) and 19 students in M.A. (final). The department has four teachers (1 Professor, 1 Reader and 2 Lecturers), of whom the Head of the Department possesses research qualifications. The major fields of specialisation in the department are Indian Political System, Political Administration and Public Administration. There are two Research Scholars working for their Ph.D. in the department each of whom is getting a scholarship of Rs.250/- per month from the general fund of the Bhanpur University.

The department has a library which has in stock 212 volumes and it is subscribing to 215 journals. A part-time clerk has been appointed to look after the library.

This department is also working along conventional lines. It has, like the Department of History, the largest number of students at the M.A. level. This is rather a weak department in terms of research output. The M.A. courses very well conform to standards. The department might be encouraged to take some interest in the study of on-going political processes in Orissa at the local and regional levels instead of confining its activities to the study of public administration and political ideas in the conventional way. The Committee recommends that the following facilities may be provided to the department during the current Plan period:-

- |                         |   |
|-------------------------|---|
| (1) Teaching Staff:     | Professor - 1 (preferably with specialisation in political behaviour), Reader - 1 and Lecturer - 1. |
| (2) Books and Journals: | Rs.25,000/-.  |
| (3) Furniture:          | Rs. 5,000/-.  |

7.8 Department of Oriya:- The present intake of the department is 21 students in M.A. (previous) and 19 students in M.A. (final). There are four teachers (1 Professor, 1 Reader and 2 Lecturers) in the department. The Professor and the Reader possess research qualifications. The department has been concentrating on the teaching of literature more than language. The department has published so far 19 papers. It has a library which has in stock 4000 books and it is also subscribing to 15 monthly journals. Two research scholars are working in the department and are getting junior research fellowships from the lump sum provided by the University Grants Commission.

The department should concentrate on its present activities of teaching and research. Its plans to extend into the fields of philology and linguistics should be held in abeyance for the time

being. The department may be encouraged to concentrate on the cultural history of Orissa in collaboration with the Department of History.

The Committee recommends that the following facilities may be provided to the department during the Fifth Plan period:-

- (1) Teaching Staff: Professor - 1 (preferably in Linguistics) and Reader - 1.
- (2) Books and Journals: Rs. 10,000/-
- (3) Purchase of manuscripts: Rs. 10,000/-
- (4) Furniture: Rs. 5,000/-

**7.9 Department of Economics:-** The present intake of the department is 16 students in M.A. (previous) and 14 students in M.A. (final). The department has four teachers (1 Professor, 1 Reader and 2 Lecturers), of whom two teachers possess research qualifications. The major areas of specialisation in the department are Regional Economics and Regional Planning and International Economics. Two research scholars are working in the department for their Ph.D. degree and are getting Junior Research Fellowships from the lump sum provided by the University Grants Commission. The department has a library which has in stock 3000 volumes. The department of economics has started very recently and its academic programmes have yet to acquire a definite shape. It may be encouraged to concentrate on problems of regional developments.

To strengthen the department, the Committee recommends that the following facilities may be provided to it during the Fifth Plan:-

- (1) Teaching Staff: Professor - 1 (with specialisation in regional economics and planning) - Reader - 1 and Lecturer - 1.
- (2) Books and Journals: Rs. 50,000/-
- (3) Furniture: Rs. 5,000/-

**7.10 Department of Labour and Social Welfare:-** The present intake of the department is 24 students in M.A. (previous) and 24 in M.A. (final). The department has four teachers (1 Professor, 1 Reader and 2 Lecturers). None of the teachers possesses research qualifications. The chief fields of interest in department are: Personnel and Labour Management. Two Junior Research Fellowships are available to the department from the University Grants Commission. The department has a library which has 1044 books in stock. It is subscribing to 11 journals. The department has been organising refresher courses for Labour Welfare Officers and Personnel Officers from Industry and

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Government and workshops for Trade Union Leaders and wants to intensify these activities. This is an active department which has been doing good work in a systematic and organised way. In addition to training students in the class-rooms, it also trains them for the collection of case material from the field. There is also a good scope for the employment of the products of the department. Its activities should be encouraged and strengthened. Instead of going in for research along conventional lines, the department should develop programmes of refresher courses and extension lectures for those already in employment.

The field work has also to be intensified. The present stock of books in the library is not satisfactory and standard books on Industrial Relations, Personnel Management, Labour Welfare etc. are wanting. The department also needs a calculating machine and duplicating machine as most of the studies in the department are empirical in nature and the research workers and students have to get their questionnaire and schedules cyclostyled before undertaking field visits. The Committee recommends that the following facilities may be provided to the department during the Fifth Plan:-

- (1) Teaching Staff: Professor - 1 (preferably with specialisation in Industrial Relations or Labour Welfare) - &c.  
Reader - 1.
- (2) Books and Journals: Rs. 50,000/-.
- (3) Field Trips: Rs. 25,000/-.
- (4) Equipment: Rs. 15,000/-.
- (5) Furniture: Rs. 5,000/-.

8. New Department:

8.1 The University has proposed to establish a number of new departments like marine biology, master of business administration, linguistics, english, commerce, oceanography and meteorology, library science, pharmaceutical chemistry, diploma in foreign languages, home science and criminology and forensic science. After a detailed discussion about the infrastructure at present available in the university area and also keeping in view the employment potentialities of the products of these departments the Committee feels that it would not be advantageous for the University to start all these departments. The recommendations of the Committee regarding new departments are given below:-

8.2 Journalism: This department seems to have been started without due and careful preparation. Its present activities have not taken any

definite shape. It has large and ambitious designs which appear somewhat unrealistic in its present conditions. The department should offer only diploma course for the time being. Since the University has already set up a department of journalism, the Committee feels that the department may be supported and the following facilities may be provided:-

- (1) Teaching Staff: Reader - 1 and Lecturers - 2.
- (2) Building: (2,000 sq.ft. including furniture). Rs.1.00 lakh.
- (3) Books and Journals: Rs.10,000/-.

8.3 Department of English:

- (1) Teaching Staff: Professor - 1 (preferably with specialisation in Modern English), Reader - 1 and Lecturers - 1 (1 Reader + 1 Lecturer - III priority).
- (2) Building: (4,000 sq.ft. including furniture). Rs.2.00 lakhs.
- (3) Books and Journals: Rs.50,000/-.

8.4 Department of Commerce:

- (1) Teaching Staff: Professor - 1 (preferably with specialisation in Business Administration) - Reader - 1 and Lecturers - 2.
- (2) Building: (4,000 sq.ft. including furniture). Rs.2.00 lakhs.
- (3) Books and Journals: Rs.50,000/-.
- (4) Equipment: Rs.15,000/-.

8.5 Department of Linguistics:- The Committee is of the view that it would not be advisable to set up a separate department of linguistics at this stage. However, it may be introduced as a paper in the department of Oriya. The Committee recommends the following facilities for the purpose:-

- (1) Teaching Staff: Reader - 1 (comparative studies of languages and dialects).
- (2) Books and Journals: Rs.10,000/-.



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- (3) Equipment: Rs.10,000/-.
- (4) Furniture: Rs. 5,000/-.

8.6 Research Centre in Marine Sciences:- The University has put up a proposal for the establishment of a department of marine biology and oceanography. The Committee agrees that the University is favourably located and the environment also appears to be suitable for embarking on research work in marine biology particularly in active collaboration with the university departments in the science faculty. But, the Committee feels that at this stage there should not be a separate department of marine biology and oceanography etc. The Committee, therefore, recommends that the University may plan to set up a Research Centre in Marine Sciences in the new science block. The first step in this direction is that the University may call a planning committee meeting for the Centre with experts drawn from the Marine Biological Research Station, Waltair, Institute of Oceanography, CXTRI, Mysore and Regional Research Laboratory, Bhubaneswar. The image of research activities of the Centre in the University system, the programmes and priorities and facilities needed should be worked out. University Departments should all be represented by one Professor each on this Committee. The main thrust should be research and development of marine resources for food and medicine. The Commission may immediately sanction Rs.25,000/- for the preparatory work of the planning for the Centre. Thereafter, in accordance with the recommendations of the planning committee assistance upto Rs.10.00 lakhs may be provided towards staff, equipment, books and any other facilities approved. Before final approval the University may be asked to spell out how it proposes to manage this inter-disciplinary programme. Academic courses may also be visualized once the centre starts functioning.

9. Central Library:- As already stated the central library of the University is housed in a big room which, by any stretch of imagination, is not fit for housing a library, more so a university library. At present there are 14,460 volumes in the University. It is subscribing to 105 journals. An improvised arrangement has been made in that room for providing 16 reading seats. Although the working hours of the library are from 10.30 A.M. to 4.30 P.M. virtually no student goes to the library. Most of the books are in the departmental libraries and are issued to students from there. The University has spent the following amounts on the purchase of library books and journals during the Fourth Plan period:

1967-68	Rs. 57,076	1971-72	Rs.1,68,080
1968-69	Rs. 75,122	1972-73	Rs.1,65,976
1969-70	Rs.1,30,490	1973-74	Rs.2,47,675
1970-71	Rs.1,86,167		

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The Committee recommends that the following assistance may be provided for the central library building.

(i) According to the University the estimated cost of the building would be about Rs.15.00 lakhs. The Committee feels that in view of the constraints of resources it would not be possible to put up a building at such a high cost at the time. The Committee, therefore, recommends that the building may be constructed in phases. During the Fifth Plan the ground floor of the building may be constructed at a total estimated cost of Rs.7.5 lakhs. The building may be designed in such a way that it may be further expended without difficulty during the Sixth Plan.

(ii) Books and Journals: - Besides, a grant of Rs.5.00 lakhs may also be provided to the library for the purchase of books and journals covering both science and humanities departments (Rs.2.00 lakhs and Rs.3.00 lakhs) respectively.

Every department has a departmental/semnar library. The procedure for the purchase of books and journals followed by the University is that books are purchased by the University librarian on the recommendations of the respective head of the department and then these books are transferred to the departmental libraries. These departmental libraries have reference, as well as, text-books. Books are issued on daily basis to the students from these libraries. A statement indicating the number of books and journals available with each of the departmental library is attached (Annexure-VII).

10. Central Workshop:- The University does not have a central workshop. There is no gainsaying the fact that the central workshop which caters to the requirements of all science departments is an essential central facility and must be given first priority. The science departments have been in existence for the last 5-6 years and the University has failed to provide a workshop. The Committee recommends that the workshop may be set up immediately with the following equipment: lathes, drilling machines, milling machines, grinders, tools etc. and the necessary staff may be provided for supervising it. The Committee, therefore, recommends that the following facilities may be provided for the workshop:-

Building: Rs.50,000/-.

(1) Machinery and Equipment: Rs.1.25 lakhs.

(2) Staff:

- (i) Workshop Superintendent - 1
- (ii) Electrician or Electronics Mechanic - 1
- (iii) Glass-blower/Carpenter - 1

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The workshop superintendent should be graduate either in mechanical or electrical engineering with experience in instrumentation. He should be appointed in Lecturer's scale of pay. Mechanic, Glass-blower/Carpenter and Electrician could be appointed in UGC approved scales of pay. Non-technical staff like Helper, Cleaner, Mate etc. may be provided by the State Government.

11. Gas Plant:- The Committee felt concerned to note that the University has not yet provided a gas plant. The Committee, therefore, recommends that the setting up of a gas plant should be given high priority. A sum of Rs.85,000/- may be provided for the installation of gas plant and laying pipe lines and for a gas room.

12. Student Amenities:- The Committee had a meeting with a representative group of students. They pointed out that lack of transport facilities has been telling heavily on their academic pursuits. Since most of them have to come from Berhampur town which is about 10 kilometers away from the University Campus, they lose several months of study hours owing to inordinate delays in regular bus service and congestion in the State transport system. The students, therefore, desired that the university may be provided with another bus solely for the students for bringing them from and taking them back to Berhampur.

The students also complained about the lack of library facilities. They pointed out that the building, primarily meant for a canteen has been converted into a library. Darkness inside the building prevents the readers to sit near the book shelves and turn over the pages. The room is ill-ventilated and sitting accommodation is not conducive to any academic pursuits. They emphasised that the Commission may immediately provide assistance for the construction of the building for the library, the foundation of which has already been laid by the President of India long back. They also desired that more grants may be given for the purchase of books and journals, especially text-books. The students also mentioned that since research is the desideratum if any academic programme, more funds should be placed at the disposal of the University for awarding scholarships/fellowships in every department to meritorious students. The postgraduate departments may also be allocated more grants for purchase of scientific equipments and books. They further desired that health care facilities may also be strengthened by appointing additional staff and adding to the stock of medicines which are at present not adequate. The students complained about lack of sports facilities and absence of a gymnasium and desired that recurring and non-recurring grants for this purpose may be sanctioned, development work of the playgrounds must be speeded up and trained coaches may be provided. The students also desired that an employment information-cum-guidance bureau and a youth welfare board be established at the University Campus. The youth welfare board may be under the charge of a Director or the Dean of student welfare.

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In view of the discussions with the students and also keeping in view the needs of the students, the Committee makes the following recommendations in regard to the provision of student amenities:

12.1 Hostel: At present the enrolment of the University is around 400 and about 250 students are in residence in an accommodation which is hardly adequate for 180 students. It was found that some of the single seated rooms in the Men's hostel were being used to accommodate two boarders leading to a situation which was most unsatisfactory. Similarly, in the Women's Hostel also, the situation was not satisfactory. The Committee, therefore, recommends that the University may be provided assistance for the construction of one Men's hostel for 100 students in the second priority and one women's hostel for 50 boarders in the first priority.

12.2 Health Centre:— Since health care facilities are essential to be provided to the students and teachers residing at the Campus, the Committee recommends that assistance may be provided to the University for the establishment of a health centre on the usual sharing basis.

12.3 Canteen:— The canteen facilities at the campus are far from satisfactory and need to be strengthened. The Committee recommends that assistance may be provided on the usual sharing basis for the construction of a big canteen so that students may be served clean meals during lunch hours.

13. Junior Research Fellowships:— The Committee noted that the existing number of research fellowships available from all sources is far short of the number of candidates desirous of pursuing research. The Committee was also informed that a large number of meritorious students who are interested in research are forced to take up jobs which neither suit their temperament nor qualifications. The Committee, therefore, recommends that a provision of Rs.6.00 lakhs may be approved for providing 10 junior research fellowships which may be allocated to the various departments in accordance with their needs. Since these fellowships will be plan based these will have to be maintained at the end of the Fifth Plan by the State Government and Commission's responsibility for their continuance would be over thereafter.

#### Teacher Amenities:—

14. At present the strength of teachers in the University Departments is 47 while the University has only provided residential quarters for 12 lecturers. Thus, 12 lecturers, 11 Readers and 8 professors are yet to be provided with residential accommodation at the campus. The Committee observed that 6 professors' quarters and

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and seven readers quarters and two lecturer's quarters were under construction, at the time of its visit. The University has included in its Fifth Plan proposals the proposal for the construction of 10 Lecturers' quarters and has also requested that Commission's assistance may also be provided for the staff quarters for professors and readers which are under construction. The Committee noted that the University started the construction work of Professors' and Readers' quarters without obtaining the prior approval of the Commission on the assumption that the assistance would be provided by the Commission for these quarters during the Fifth Plan period. The explanation given by the University authorities was that the construction work has been undertaken by the PWD on loan basis and the University agreed for the same because it thought if the construction work was deferred the cost of construction may further increase and it would be a loss both to the University as well as to the University Grants Commission. The Vice-Chancellor pointed out that these quarters were being constructed at the old rates and so when during the course of the past two or three years the cost of construction has gone up by more than 40%, the University would be saving considerable amount of money by getting these quarters constructed at the old rates. The Committee was satisfied with the justification given by the University authorities and recommends that the Commission may agree to share the expenditure on the construction of 6 professors' and 7 readers' quarters on usual sharing basis. The Committee further recommends that assistance may also be provided to the University for the construction of 10 lecturers' quarters.

15. General Schemes:-

During the Fourth Plan the University had proposed to construct building of the second science block, two reader type and two lecturer type quarters, guest house, second boys' hostel for 100 boarders and extension to humanities block, with the Commission's assistance. The Vice-Chancellor explained that the construction work in respect of these buildings had been started during the Fourth Plan keeping in view that these buildings will be completed during the said plan period. But, in actual operation, according to the Vice-Chancellor, the University Grants Commission after three phases of changes restricted its allocation late in 1971-72 and directed the University to accommodate to its programmes within the UGC ceiling of assistance. Consequently, some of the buildings could not be accommodated within the said ceiling and although the construction had been started, these remained outside the purview of UGC ceiling and, therefore, these are lying incomplete. The Vice-Chancellor, therefore, requested that the Commission may treat these buildings as on going projects and assistance may be provided on 50:50 basis and the amount due may be included in the spill-over to the Fifth Plan. The Committee, therefore, recommends that in view of: (i) the construction work having been undertaken by the PWD on the old rates on loan basis and (ii) the willingness

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of the University may be accepted. The details of these buildings are given below:-

S.N.	Name of the Scheme	UGC Share:
1.	2nd Science Block (approved subject to adjustment within 4th Plan allocation.	4,76,500
2.	6 nos of Professors quarters.	2,18,000
3.	5 nos of Readers quarters.	1,33,500
4.	2 nos of Superintendent quarters (Reader type) and 2 nos of Assst. Superintendent quarters (Lect. Type).	78,500
5.	Guest House (II visiting Committee report (1971-72) for additional funds)	1,15,000
6.	2nd Boys' Hostel (100 seated)	4,55,000
7.	Extension work to Humanities Block.	99,000
Total:		15,75,550

The Committee also recommends that assistance may be provided to the University for the establishment of a University press and construction of Vice-Chancellor's residence on the usual sharing basis.

16. Financial Implications:- A summary of the financial implications (UGC share) of the Committee's recommendations (priority-wise) along with the committed expenditure for the development of higher education and research in the Faculties of Arts and Science at the Berhampur University, Berhampur is given below:-

Items:	Financial Implications		
	I	II	III
	(figures in lakhs of rupees)		
(a) Spill over	20.44	- -	- -
(b) Basic grant for books	3.00	- -	- -
(c) Basic grant for science equipment	5.00	- -	- -

(d) New Allocations:

(i)	Books	5.14	3.32	3.84
(ii)	Equipment	4.20	1.57	1.98
(iii)	Building	5.95	6.50	8.025
(iv)	Others/Misc.	4.32	--	--
(v)	Jr. Research Fellowships	--	3.00	3.00
(vi)	Recurring	9.02	8.02	4.18
(vii)	Centre for Marine Sciences	--	5.00	5.00
Total:		57.07	27.41	26.025

Grand Total (a + b + c + d) = Rs.110.505 lakhs.

The departmentwise and purposewise break-down of non-recurring expenditure involved in the implementation of the recommendations of the Committee is given in Annexure-VIII.

The departmentwise and categorywise break-down of the additional posts recommended in the report is given in Annexure-IX.

The total allocation thus recommended amounts to Rs.110.50 lakhs (UGC share) against the tentative allocation of Rs.100 lakhs. It may be pointed out that out of this allocation an amount of Rs.20.44 lakhs is payable to the University in respect of schemes and projects which were approved in earlier plans or which were undertaken by the University under the pressure of circumstances towards the end of the last Plan. This also includes an amount of Rs.8.00 lakhs approved during the current Plan period for the purchase of library books and science equipments.

The Committee places on record its thanks to the Vice-Chancellor, Members of the Faculty and the University Staff for providing all facilities to the Committee during their visit to the University.

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ANNEXURE-I

Berhampur University Postgraduate Departments and  
their Students Enrolment:

Name of the Department:	Enrolment		Total	
	Boys	Girls		
<u>Humanities:</u>				
Department of History:	(Previous)	27	5	32
	(Final)	17	4	21
Department of Oriya:	(Previous)	15	6	21
	(Final)	12	7	19
Department of Political Science:	(Previous)	28	3	31
	(Final)	17	2	19
Department of L.S.W,	(Previous)	20	4	24
	(Final)	24	-	24
Department of Economics:	(Previous)	12	4	16
	(Final)	14	-	14
Department of Mathematics:	(Previous)	4	1	5
	(Final)	4	-	4
<u>Science:</u>				
Department of Physics:	(Previous)	15	1	16
	(Final)	16	-	16
Department of Botany:	(Previous)	11	5	16
	(Final)	14	2	16
Department of Zoology	(Previous)	15	1	16
	(Final)	10	6	16
Department of Chemistry:	(Previous)	12	-	12
	(Final)	10	-	10
Total:		297	51	348



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ANNEXURE-II

The Faculty-wise break-down of enrolment in Colleges 1973-74

Colleges	Arts		Science			Others			Total		
	B	G	B	* G		Law+Com.	Ph.D.	M.Ed.			
						B		G			
Aska Science College.	203	28	208	4		63		0	477	32	509
SKCG College, Parlakhenidi.	376	80	390	20		-		-	766	100	866
Rayagada College, Rayagada.	77	30	48	5		119		0	244	35	279
Hinjilicut Science College.	235	11	138*	2		28		0	401	13	414
R.C.M. College, Khallikote.	162	10	78	2		-		-	240	12	252
Ganjam College, Ganjam.	141	31	33	3		71		0	245	34	279
Lingaraj Law College, Berhampur.	-	-	-	-		888		15	888	15	903
Khallikote College, Berhampur.	713	33	805	50		490		10	2008	93	2101
MKCG Medical College, Berhampur.	-	-	-	-		364		66	364	66	430
Chatrapur Science College.	174	33	78	10		-		-	252	43	295
Govt. Evening College, Berhampur.	513	6	-	-		-		-	513	6	519
V.D. College, Jeypore.	299	74	251	22		24		0	574	96	670
Nowrangapur College.	136	26	-	-		-		-	136	26	162
Govt. Science College, Phulbani.	228	75	134	26		-		-	362	101	463
DAV College, Koraput.	142	57	88	16		41		4	271	77	348
Govt. Women's College, Berhampur.	-	416	-	108		-		-	-	524	524
Govt. Training College, Berhampur.	-	-	-	-		112		40	112	40	152
KSUB College, Phulbani.	250	20	150	30		100		0	500	50	550
<b>Total:</b>	<b>3652</b>	<b>930</b>	<b>2401</b>	<b>298</b>		<b>2300</b>		<b>135</b>	<b>8353</b>	<b>1363</b>	<b>9716</b>

VI. Number of Research Scholars working for their Ph.D. Degree in various Departments: (1974-75)

At present there are 10 postgraduate departments in this University apart from one diploma course in Journalism. The University has instituted two research scholarships for each of the departments partly with U.G.C. assistance. At present the following are working for their Ph.D. degree and for the vacancies steps are being taken to award the same early.

(A)

Name of the Department:	Research Scholarship		
	Number instituted for which UGC assistance is available	No. of scholars working.	Vacancies being filled up
Botany	2	1	1
Zoology	2	-	2
Mathematics	2	2	-
Chemistry	2	2	-
Physics	2	-	2
History	2	-	2
Economics	2	1	1
Political Science	2	-	2
L.S.W.	2	2	-
Oriya	2	2	-
Journalism	2	1	2
<b>Total:</b>	<b>22</b>	<b>10</b>	<b>12</b>

(B) Scholars working under other schemes:

Name of the Department:	CSIR Award	UGC direct Award	Total
History	-	1 (J.R.F.)	1
Physics	-	1 (J.R.F.)	1
Botany	2 (J.R.F.)	-	2
Zoology	2 (S.R.F.)	-	2
Mathematics	-	1 (S.R.F.)	1
<b>Total:</b>	<b>4</b>	<b>3</b>	<b>7</b>

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ANNEXURE. IVBERHAMPUR UNIVERSITYEXAMINATION RESULTS FOR THE YEAR 1969

Faculty/Courses	No. of students appeared	No. passed			Total	%age of pass	Remarks
		1st Div.	2nd Div.	3rd Div.			
1	2	3	4	5	6	7	8
<u>NON PROFESSIONAL</u>							
i) <u>ARTS</u>							
Pre University	(A)	1332	11	60	489	560	42
	(S)	572	2	28	337	367	64.2
Ist Yr. Dg.	(A)	618	18	50	302	370	59.9
	(S)	251	3	10	146	159	63.4
Final Yr. Dg. (Pass)	(A)	352	-	40(D)	190	230	70.8
	(S)	174	-	-	50	50	28.7
Final Yr. Dg. (Hons)	(A)	43	21	14	4	39	89.7
	(S)	-	-	-	-	-	-
M.A. English		23	-	12	10	22	94.4
M.A. Economics		26	-	22	2	24	90.9
<u>SCIENCE</u>							
Pre University	(A)	997	4	35	361	400	40.1
	(S)	982		10	483	493	50.2
1st Yr. Dg.	(A)	672	2	12	359	363	54
	(S)	263			135	135	51.3
Final Yr Dg. (Pass)	(A)	244			160)	160	65.6
	(S)	86			55	55	63.9
Final Yr Dg (Hons)	(A)	41	15	14	7	36	87.8
	(S)						
M.Sc Chemistry		17				17	100
M.Sc. Mathematics		13				12	94.4

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	1	2	3	4	5	6	7	8
III. <u>COMMERCE</u>								
1st Yr. Dg.	(A)	92	2	5	40	47	51%	
	(S)	41	-	-	38	38	92.7	
B. Com. (Pass)	(A)	64	-	-	44	44	68.7	
	(S)	23			21	21	91.3	
M. Com.		11	2	9	-	11	100	
IV. <u>PROFESSIONAL</u>								
Bachelor of Education		118	-	58(D)	53	111	93.9	
Bachelor of Law		33	-	6	21	27	81.8	
Final MBBS (May and June)		91	-	5(H)	42	47	51.6	

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EXAMINATION RESULTS FOR THE YEAR 1969 FOR POSTGRADUATE DEPARTMENT OF  
BERHAMPUR UNIVERSITY

Faculty/Course	No. of students appeared	No. passed			Total	Percentage of pass.	Remarks
		1st Div.	2nd Div.	3rd Div.			
1.	2.	3.	4.	5.	6.	7.	8.
<u>M.A. (LSW)</u>		<u>1970</u>					
Oriya:	13	4	8	1	13	100	
Political Science:	14	1	11	2	14	100	
LSW:	16	3	13	-	15	99.0	
History:	10	3	7	-	10	100	
		<u>1971</u>					
<u>ARTS:</u>							
M.A. (LSW)	15	2	12	-	14	95.0	
History	12	2	10	-	12	100	
Political Science:	17	-	11	6	17	100	
Oriya:	11	3	8	-	11	100	
<u>SCIENCE:</u>							
M.Sc. Physics	12	6	3	-	9	75.0	
Zoology	14	7	6	-	13	95.0	
Botany:	16	14	2	-	16	100	

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1.	2.	3.	4.	5.	6.	7.	8.
			<u>1972</u>				
Postgraduate(Oriya)	16	4	12	-	16	100	
(History)	23	2	17	3	22	95.0	
(Pol. Science)	20	3	11	4	18	90.0	
(L.S.W.)	20	2	17	-	19	95.0	
<u>Science:</u>							
Postgraduate(Physics)	18	12	1	2	15	83.0	
(Botany)	16	13	3	-	16	100	
			<u>1973</u>				
<u>Arts:</u>							
Postgraduate(Oriya)	13	-	11	2	13	100	
(History)	14	4	7	2	13	94.0	
(Pol. Science)	25	1	24	-	25	100	
(L.S.W.)	20	4	16	-	20	100	
<u>Science:</u>							
Postgraduate(Physics)	16	7	4	2	13	82.0	
(Botany)	16	11	5	-	16	100	
(Zoology)	16	8	7	-	15	94%	
			<u>1974</u>				
Postgraduate(Oriya)	24	6	18	-	24	100	

GMB

1.	2.	1.	3.	4.	5.	6.	7.	8.
Postgraduate (History)	20	Postgraduate-2	(H.S. 13)	4	15	95.0		
(Pol. Science)	21	9	(Pol. 10 no)		19	95.0		
(L.S.W.)	19	7	(L.S. 11)	-	18	94.0		
(Physics)	19	11	(Phy 10)	-	18	95.0		
(Botany)	18	14	(Bot 4)	-	18	100		
(Zoology)	19	5	(Zool 13)	-	18	95.0		
(Chemistry)	9	7	(Chem 1)	-	8	90.0		

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APPENDIX A

BERHAMPUR UNIVERSITY EXAMINATION RESULTS FOR THE  
YEAR 1970

Faculty/Course		No. of students appeared	No. passed			Total	Percentage of Marks	Remarks
			1st Div.	2nd Div.	3rd Div.			
1.		2.	3.	4.	5.	6.	7.	8.
<u>ARTS:</u>								
Pre-University:	(Annual)	1505	4	—	—	572	38.0	
	(Suppl.)	575	—	—	344	344	59.8	
1st Year	(Annual)	740	1	33	310	344	46.5	
	(Suppl.)	334	—	3	211	214	64.0	
I.A. (Pass)	(Annual)	387	—	—	—	205	52.9	
	(Suppl.)	201	—	—	—	148	73.6	
(Hons.)		92	2	62	7	71	77.2	
M.A. (English)		11	—	—	—	10	90.9	
(Economics)		22	—	22	—	22	100	
(Mathematics)		12	1	3	1	5	42.5	
<u>SCIENCE:</u>								
P.U.C.	(Annual)	1046	8	—	—	438	41.8	
	(Suppl.)	404	—	2	227	229	56.9	
1st Year	(Annual)	619	21	56	187	297	48.0	
	(Suppl.)	240	—	1	153	154	64.2	
B.Sc. (Pass)	(Annual)		—	—	—	104	71.2	
	(Suppl.)	146	—	—	—			
B.Sc. (Hons.)								
M.Sc. (Chemistry)		18	12	6	—	18	100	



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1.	2.	3.	4.	5.	6.	7.	8.
<u>III. COMMERCE:</u>							
1st Year	(Annual)	133	-	2	109	111	80.4
	(Suppl.)	25	-	-	21	21	84.0
B.Com (Pass)		15	-	-	-	13	86.6
M.Com.		19	2	16	-	18	94.7
<u>PROFESSIONAL:</u>							
Bachelor of Education:		31	-	-	-	12	38.7
Bachelor of Law							
M.B.B.S.		206	-	-	-	154	74.8
M.B.B.S.		307	-	-	-	214	95.96

*Handwritten initials/signature*

EXAMINATION RESULTS FOR THE YEAR 1971

1.		2.	3.	4.	5.	6.	7.	8.
<u>ARTS:</u>								
P.U.C.	(Annual)	1651	1	18	860	879	53.3	
	(Suppl.)	699	-	-	381	381	54.22	
Ist Year	(Annual)	956	3	31	633	667	69.77	
	(Suppl.)	304	-	-	238	238	78.2	
B.A. (Pass)	(Annual)	465	-	8(D)	255	263	56.5	
	(Suppl.)	242	-	-	160	160	70.2	
(Hons.)		114	1	75	12	88	77.0	
M.A. (Economics)		21	1	20	-	21	100.0	
M.A. (Mathematics)		24	5	19	-	24	100.0	
M.A. (English)		17	-	4	12	-	95.0	
<u>SCIENCE:</u>								
P.U.	(Annual)	927	8	30	444	482	52.2	
	(Suppl.)	353	-	-	261	261	73.9	
Ist Year	(Annual)	635	15	81	318	414	60.19	
	(Suppl.)	188	-	1	142	143	76.0	
B.Sc. (Pass)	(Annual)	272	-	42(O)	164	198	72.7	
	(Suppl.)	68	-	-	45	45	66.2	
B.Sc. (Hons.)		96	21	59	9	89	92.7	
M.Sc. (Chemistry)		13	7	6	-	13	100.0	

615

1.		2.	3.	4.	5.	6.	7.	8.
<u>COMMERCIAL:</u>								
1st Year	(Annual)	174	1		3	137	141	81.4
	(Suppl.)	39	-		-	31	31	79.4
B. Com. (Pass)	(Annual)	100	1		1(0)	61	62	62.0
	(Suppl.)	45	-		-	42	42	93.3
B. Com. (Hons.)		11	9		2	-	11	100.0
M. Com.		24	2		21	1	24	100.0
<u>PROFESSIONAL:</u>								
B. Ed.		139	-		35(D)	103	138	99.3
Law		38	1		5	62	68	100.0
M. B. B. S.		221	-		10(H)	164	174	78.7

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EXAMINATION RESULTS FOR THE YEAR 1972.

Faculty Course	No. of St. appeared	1st Div.	2nd Div.	No. Passed 3rd Div.	Total	Percentage of pass	Remarks
1	2	3	4	5	6	7	8
<u>Non professional</u>							
<u>1. Arts</u>							
Pre University	(a) 2165	1	31	949	981	45.3%	
	(S) 861	-	1	493	494	57.44%	
Ist Year	(A) 1277	-	12	518	530	41.5%	
	(S) 448	-	2	240	242	54.2%	
Final Yr. Degree (Pass)	(A) 507	-	5 (D)	144	149	29.4%	
	(S) 250	-	-	-	104	41.6%	
Final Yr. Degree (Honours)	(A) 155	5	67	34	106	68.4%	
	(S) -	-	-	-	-	-	
M.A. (Economics)	13	-	8	2	-	77%	
M.A. (English)	14	-	5	2	-	50%	
<u>ii. Science</u>							
Pre University	(A) 846	5	26	391	422	49.87%	
	(S) 345	-	-	136	186	53.9%	
Ist Year Degree	(A) 663	13	27	236	276	41.6%	
	(S) 266	-	2	113	115	43.2%	
Final Year Degree (Pass)	(A) 196	-	10 (D)	55	65	33.1%	
	(S) 148	-	-	85	85	57.4%	
Final Year Degree (Hons.)	(A) 125	15	37	8	60	48%	
	(S) -	-	-	-	-	-	
M.Sc. Chemistry.	16	10	4	-	14	87.6%	
M.A./M.Sc Mathematics	10	3	-	-	3	30%	

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	1	2	3	4	5	6	7	8
<u>iii. Commerce</u>								
Final Year Degree	(A)	252	Nil	1	100	101	40%	
	(S)	68	-	-	-	32	47.04%	
Final Year Degree	(A)	124	-	-	105	105	84.7%	
(Pass)	(S)	15	-	-	12	12	80%	
Final Year Degree	(A)	24	5	19	-	24	100%	
(Honours)	(S)	-	-	-	-	-	-	
M. Com.	(A)	15	-	8	5	13	90%	
<u>Professional</u>								
B. Ed.		180	-	-	-	178	98.9%	
LL. B.		-	-	-	-	-	-	
M. B. B. S.		50	-	-	-	41	78.8%	

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APPENDIX 'A'

EXAMINATION RESULTS FOR THE YEAR 1973

Faculty/Courses	No. of students appeared.	No. passed			Total	Percentage of pass	Remarks
		1st Divn.	2nd Divn.	3rd Divn.			
1	2	3	4	5	6	7	8
<u>Non-PROFESSIONAL</u>							
i) <u>Arts</u>							
Pre-University (Annual)	212	-	-	1	91	92	43.4%
(Suppl.)	21	-	-	-	11	11	52.4%
First year degree (Annual)	1128	3	55	489	547	547	48.48%
(Suppl.)	720	-	12	435	447	447	62%
Final Year (Psss) (Annual)	597	10	201	65	376	376	63.4%
(Suppl.)	203	-	-	166	166	166	58.6%
Final year (Hons) (Annual)	148	4	67	36	107	107	72.03%
(Suppl.)	4	-	-	2	2	2	50%
M.A. (Economics)	28	1	13	7	21	21	75%
M.A. (Mathematics)	9	2	3	1	6	6	66.6%
M.A. (English)	22	-	5	11	16	16	72.7%
ii. <u>Science</u>							
Pre University (Annual)	91	-	-	46	46	46	50.5%
(Suppl.)	13	-	-	7	7	7	53.8%
First year degree (Annual)	586	15	65	235	315	315	53.4%
(Suppl.)	304	2	8	145	155	155	50.9%
Final year (Pass) (Annual)	168	12	47	31	90	90	53.5%
(Suppl.)	203	24	8	134	166	166	50.0%
Final year (Hons) (Annual)	195	23	60	29	113	113	57.4%
(Suppl.)	40	1	19	6	26	26	65%
M.Sc. (Chemistry)	11	7	3	-	10	10	90.9%
iii. <u>COMMERCE</u>							
1st year degree (Annual)	232	1	7	94	102	102	44%
(Suppl.)	100	-	-	69	69	69	69%
Final year (Pass) (Annual)	45	-	-	8	8	8	18.2%
(Suppl.)	77	-	3	38	41	41	53.2%

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1	2	3	4	5	6	7
Final Year. (Hons) (Annual)	11	1	1	-	2	18.02%
(Suppl.)	10	-	-	5	5	50%
M. Com.	3	1	-	1	2	66.6%
<u>PROFESSIONAL</u>						
iv) Bachelor of Education	198	-	-	-	182	91.9%
v) Bachelor of Law	168	-	-	-	158	98.1%
vi) <u>M. B. B. S.</u> Kims (73)						
1st M. B. B. S.	19	2	-	-	16	84.92%
2nd M. B. B. S.	90	-	-	-	74	82.5%
3rd M. B. B. S.	40	-	-	-	33	82.3%
Final M. B. B. S.	48	-	-	-	40	83.3%
<u>December '73</u>						
1st M. B. B. S.						
2nd M. B. B. S.	99	-	-	-	62	62.6%
3rd M. B. B. S.						
Final M. B. B. S.						

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APPENDIX -A

EXAMINATION RESULTS FOR THE YEAR 1974

Faculty/Courses	No. of Students appeared	No. passed			Total	Percentage of pass	Remarks
		1st Divn.	2nd Divn.	3rd Divn.			
1	2	3	4	5	6	7	8
<u>NON PROFESSIONAL</u>							
i. <u>Arts</u>	(A) 6	-	-	5	5	83.3%	
	(S) -	-	-	-	-	-	
I.A. Examination	(A) 1569	24	147	628	799	50.9%	
	(S) 622	-	3	292	295	45%	
First Year Degree	(A) 478	-	9	251	260	54.39%	
	(S) 188	-	1	92	93	49.46%	
Final year degree	(A) Pass 586	16	-	296	312	53.24%	
	(S) Pass 141	1	59	23	83		
Final Year Degree	(A) Hons 183	7	103	23	133	70.07%	
	(S) 28	-	15	8	23		
M.A. (Economics)							Result awaited
M.A. (Mathematics)							-do-
M.A. (English)							-do-
<u>ii. Science</u>							
Pre-University (Annual)	103	7	12	29	48	42%	
First Year degree (Annual)	172	1	10	83	94	54.65%	
	(Supply) 54	-	-	30	30	53.57%	
I.Sc. Examination (Annual)	844	77	138	294	409	60.30%	
	(Supply.) 279	2	8	124	134	48.02%	
Final year (Pass) (Annual)	586	16	-	296	312	53.24%	
	(Supply.) 141	1	59	23	83		
Final year (Hons) (Annual)	214	19	54	22	95	44.9%	
	(Suppl.) 62	1	-	30	31		
M.Sc. (Chemistry)	16	1	7	-	8	50%	
<u>iii. COMMERCE</u>							
First Year degree (Annual)	59	-	1	15	16	27.12%	
	(Suppl.) 36	-	-	19	19	57.76%	
I.Com (Annual)	273	-	-	-	-	-	
	(Suppl.) 108	-	-	-	26	44.8%	
B.Com (Pass) (Annual)	141	4	58	-	62	44.7%	
	(Suppl.) 49	-	17	4	21		



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1	2	3	4	5	6	7	8
B.Com (Hons) - (Annual)	12	3	2	5	10	83.3%	
M.Com.	19	1	11	6	18	94%	
<u>PROFESSIONAL</u>							
iv) Bachelor of Education	184	52	126	-	178	96.7%	
v) Bachelor of Law	247	-	246	-	246	99.6%	
vi) Final M.B.B.S.	47	-	-	-	28	56%	

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BERHAMPUR UNIVERSITY

ANNEXURE V

STATEMENT OF INCOME AND EXPENDITURE OF THE UNIVERSITY FROM 1967-68 TO 1973-74

INCOME	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Maintenance Grant from State Govt.	Rs. 5,00,000	Rs. 15,00,000	Rs. 15,00,000	Rs. 16,44,433	Rs. 21,02,450	Rs. 21,00,000	Rs. 20,80,158
Income from fees.	2,14,584	3,59,480	4,13,708	4,35,060	4,09,036	6,79,653	6,01,073
Other source	13,880	1,06,128	61,220	40,812	56,464	59,827	2,16,458
<u>DEVELOPMENT GRANT</u>							
U.G.C.	6,500	45,000	5,15,350	10,37,167	12,02,809	9,94,230	18,88,885
State Government	-	-	-	5,00,000	5,00,000	6,00,000	-
Other source	-	-	-	-	-	-	-
Total:-	7,34,964	20,10,608	24,90,380	31,57,472	42,64,759	44,33,712	47,86,574

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TABLE

V BUDG

- 2 -

EXPENDITURE	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
1. Salary of teaching staff.	1,987.45	42,618.00	1,27,456	2,21,767	2,99,017	3,66,442	4,17,220
2. Administrative Staff	1,326.66	1,91,850.00	2,88,877	4,17,059	5,17,853	6,81,806	8,41,151
3. Library books & journals.	57,076.00	75,122.00	1,30,490	1,86,167	1,68,080	1,65,976	2,47,675
4. Equipment (including furniture and laboratory)	58,382.00	50,457.00	1,91,484	2,67,257	2,22,312	3,14,358	2,84,530 1,07,789 cost of Bus
5. Building academic and others.	-	8,00,000.00	18,13,203	9,75,000	25,59,653	13,72,460	15,15,769
6. Scholarships and Fellowships	-	-	5,415	19,426	32,803	47,672	82,548
7. Any other source	1,52,554.00	5,10,511.00	6,95,746	8,18,909	14,02,976	12,13,761	15,81,951
<b>Total:-</b>	<b>2,80,326.11</b>	<b>16,70,558.00</b>	<b>32,52,671</b>	<b>22,85,535</b>	<b>52,02,694</b>	<b>41,62,275</b>	<b>50,78,633</b>

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ANNEXURE- VI

BERHAMPUR UNIVERSITY

SPILL OVER FROM THE FOURTH PLAN

S.No.	Name of the Scheme	Total approved cost.	UGC's Share	Amount paid upto 31.3.'74	Spill over	Grant Sanctioned after 31.3.'74	Remarks
1.	2	3	4	5	6	7	8
		Rs.	Rs.	Rs.	Rs.	Rs.	
1.	Construction of Humanities Block.	13,65,630	13,65,630	13,00,000	65,630	65,630	
2.	Construction of Science Block.	12,49,541	12,49,541	9,50,000	2,99,541	2,99,541	
3.	Construction of Womens Hostel.	3,78,880	2,48,925	2,45,000	3,925	3,925	
4.	Construction of 'D' type quarters.	3,34,500	1,67,250	1,48,000	19,250	19,250	
5.	Construction of 100 seated Students Hostel.	6,85,200	3,26,192	3,15,000	11,192	11,192	
6.	Purchase of Library Books/Journals (Science and Humanities).	8,00,000	8,00,000	7,25,000	*		*The balance amount lapsed with the end of 4th Plan.
7.	Purchase of equipment for Science Department.	8,38,715	8,38,715	7,80,000	*		-do-
8.	Creation of post of Development Officer.	35,000	35,000	22,443.18	12,556.82	-	
9.	Publication of Research Work.	10,000	10,000	5,000	5,000		

(625)

	2	3	4	5	6	7	8
10. Employment of trained coaches.	6,404.25	6,404.25	6,404.25	-	-	-	-
11. Salaries of additional staff in (H)	3,58,915	3,58,915	3,20,000	38,915	38,915	38,915	
12. Purchase of big bus.	92,422	92,422	80,000	12,422	12,422	12,422	
13. Salaries of teaching Staff in Sciences.	3,32,000	3,32,000	3,32,000	--	--	--	
14. Second Science Block.	9,53,000	4,76,500	--	4,76,500	--	--	
15. Six nos. of Prof. Qrs.	4,36,000	2,18,000	--	2,18,000	--	--	
16. Five Nos. of Readers Qrs.	2,67,000	1,33,500	--	1,33,500	--	--	
17. Two nos. of Supdt. Qrs. (Readers Type) and two nos. of Asstt. Supdt. Qrs. (Lecturers type)	1,57,000	78,500	--	78,500	--	--	
18. Ind Boys Hostel	9,10,000	4,55,000	--	4,55,000	--	--	
19. Extension to Humanities Block	1,98,000	99,000	--	99,000	--	--	
20. Guest House	2,30,000	1,15,000	--	1,15,000	--	--	
Grand Total:-	96,38,207.25	74,06,494.25	52,28,847.43	20,43,931.82	4,50,875		

(626)  
ANNEXURE VII

TOTAL NUMBER OF BOOKS & JOURNALS DEPARTMENTWISE (1974-75)

<u>Departments</u>	<u>Books</u>	<u>Journals</u>
1. Chemistry	500	12
2. Physics	575	-
3. Botany	-	20
4. Zoology	1117	21
5. Mathematics	748	-
6. History	1863	43
7. Pol. Science	212	215
8. Oriya	4000	15
9. Economics	3000	-
10. Labour & Social Welfare	1044	11

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BERHAMPUR UNIVERSITY

ANNEXURE. VIII

FINANCIAL IMPLICATIONS (NON-RECURRING) (Figures in lakhs Rs)

No.	Department	Books				Equipment				Others				
		I	II	III	Total	I	II	III	Total	I	II	III	Total	
<b>A. FACULTY OF SCIENCE.</b>														
1.	Chemistry	0.50	0.25	0.25	1.00	1.00	0.50	0.50	2.00	-	-	0.050	0.050	-
2.	Physics	0.50	0.25	0.25	1.00	0.75	0.37	0.38	1.50	-	-	0.075	0.075	-
3.	Botany	0.37	0.19	0.19	0.75	0.60	0.30	0.30	1.20	-	-	0.050	0.050	0.20 Air Condi- tioning of 0.20 Museum 0.10 Herbarium 0.30 Botanical Garden 0.20 Fern House 0.20 Field Trips
4.	Zoology	0.37	0.19	0.19	0.75	0.60	0.30	0.30	1.20	-	-	0.050	0.050	0.20 Museum 0.50 Animal House 0.20 Field Trips 0.20 Drosophiah Culture Room
5.	Mathematics	0.37	0.19	0.19	0.75	-	-	0.20	0.20	-	-	0.025	0.025	-
		2.11	1.07	1.07	4.25	2.95	1.47	1.68	6.10	-	-	0.250	0.250	2.30

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Department	Books				Equipment				Building			Total	Others		
	I	II	III	Total	I	II	III	Total	I	II	III				
<u>FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES</u>															
History	0.25	0.12	0.13	0.50	-	-	-	-	-	-	0.025	0.025	0.45	Research Projects	
														0.10	Manuscripts
														0.02	Travelling expenses.
Pol. Science	0.13	0.06	0.06	0.25	-	-	-	-	-	-	0.025	0.025	-	-	
Oriya	0.05	0.03	0.02	0.10	-	-	-	-	-	-	0.025	0.025	0.10	Manuscripts	
Economics	0.25	0.12	0.13	0.50	-	-	-	-	-	-	0.025	0.025	-	-	
Labour & Social Welfare	0.25	0.12	0.13	0.50	-	-	0.150	0.150	-	-	0.025	0.025	0.25	Field Trips	
	0.93	0.45	0.47	1.85	-	-	0.150	0.150	-	-	0.125	0.25	0.92		
<u>NEW DEPARTMENTS</u>															
Journalism	0.05	0.03	0.02	0.10	-	-	-	-	-	-	0.500	0.500	-	-	
English	0.25	0.12	0.13	0.50	-	-	-	-	-	0.50	0.500	0.500	-	-	
Commerce	0.25	0.12	0.13	0.50	-	-	0.150	0.150	-	0.50	0.500	1.000	-	-	
Linguistics	0.05	0.03	0.02	0.10	-	0.10	-	0.10	-	-	0.025	0.025	-	-	
	0.60	0.30	0.30	1.20	-	0.10	0.15	0.250	-	1.00	1.525	2.525	-	-	



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No.	Department	Books				Equipment				Building			Total	Others	
		I	II	III	Total	I	II	III	Total	I	II	III			
<b>OTHERS</b>															
	Research Centre in Marine Sciences.													0.250 Lump provision of Rs. 10 lakhs Rs. 5 lakhs each in II <sup>nd</sup> & III <sup>rd</sup> Priority.	
	Central Library	1.50	1.50	2.00	5.00	-	-	-	2.75	1.00	-	3.750			
	Plant	-	-	-	-	-	-	-	1.25	-	-	-	0.850	0.75	
	Gen. Workshop	-	-	-	-	-	-	-	1.25	0.50	-	0.500			
	Cent. Lab.	-	-	-	-	-	-	-	-	4.50	-	4.500			
	Boys Hostel	-	-	-	-	-	-	-	-	-	3.375	3.375			
	Womens Hostel	-	-	-	-	-	-	-	1.50	-	-	1.500			
	Head Centre	-	-	-	-	-	-	-	1.20	-	-	1.200			
	Canteen	-	-	-	-	-	-	-	-	-	1.750	1.750			
	Staff Quarters	-	-	-	-	-	-	-	-	-	0.500	0.500			
	V.O's Residence	-	-	-	-	-	-	-	-	-	0.500	0.500			
	Printing Press	-	-	-	-	-	-	-	-	-	-	-			
	Research Fellowships	-	-	-	-	-	-	-	-	-	-	-	6.00		
<b>Grand Total:</b>		<b>1.50</b>	<b>1.50</b>	<b>2.00</b>	<b>5.00</b>	<b>1.25</b>	<b>-</b>	<b>-</b>	<b>1.25</b>	<b>5.950</b>	<b>5.500</b>	<b>6.125</b>	<b>17.575</b>	<b>1.10</b>	<b>6.00</b>
<b>Grand Total:</b>		<b>5.14</b>	<b>3.32</b>	<b>3.84</b>	<b>12.30</b>	<b>4.20</b>	<b>1.57</b>	<b>1.98</b>	<b>7.75</b>	<b>5.950</b>	<b>6.500</b>	<b>8.025</b>	<b>20.475</b>	<b>4.320</b>	

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BERHAMPUR UNIVERSITY

ANNEXURE-IX

ADDITIONAL POSTS RECOMMENDED BY THE VISITING COMMITTEE

	I				II				III				Remarks
	P	R	L	O	P	R	L	O	P	R	L	O	
<u>A. FACULTY OF SCIENCE</u>													
1. Chemistry	1	-	-	-	-	4	-	-	-	-	4	-	
2. Physics	1	-	-	-	-	1	-	-	-	-	1	-	
3. Botany	1	-	-	-	-	1	-	2*	-	-	1	-	*Herbarium Museum-1 Keeper
4. Zoology	1	-	-	-	-	1	-	-	-	-	1	3*	*Museum Keeper-1 Animal House Keeper - 1 Technical Asst.- 1
5. Mathematics	1	-	-	-	-	1	-	-	-	-	-	-	
	5	-	-	-	-	5	-	2	-	-	4	3	
<u>FACULTY OF HUMANITIES &amp; SOCIAL SCIENCES.</u>													
History	1	-	-	-	-	1	-	-	-	-	4	-	
Pol. Science	1	-	-	-	-	1	-	-	-	-	1	-	
Oriya	1	-	-	-	-	1	-	-	-	-	-	-	
Economics	1	-	-	-	-	1	-	-	-	-	1	-	
5. Labour & Social Welfare	1	-	-	-	-	1	-	-	-	-	-	-	
	5	-	-	-	-	5	-	-	-	-	2	-	
<u>NEW DEPARTMENTS</u>													
1. Journalism	-	1	-	-	-	-	2	-	-	-	-	-	
2. English	-	1	1	-	1	-	-	-	-	1	2	-	
3. Commerce	1	-	1	-	-	-	1	-	-	1	-	-	
4. Linguistics (Under Oriya Deptt.)	-	-	-	-	-	1	-	-	-	-	-	-	
	1	2	2	-	1	1	3	-	-	2	2	-	
<u>OTHERS</u>													
1. Central Workshop	-	-	-	3*	-	-	-	-	-	-	-	-	*Workshop Suptd.-1
2. Health Centre	-	-	-	**	-	-	-	-	-	-	-	-	Electrician Mechnic-1 Glass Blower/Carpenter-1
Grand Total:-	11	2	2	3	1	11	3	2	-	2	8	3	**Usual Staff required.

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-: 8 :-

11. Each University would be required to send to the UGC annually a detailed report indicating the progress made in the implementation of the V Plan programmes and with reference to the suggestions contained in the report. This report should be made available to the Commission not later than 30th June, each year.

OTHER RECOMMENDATIONS

1. The Commission may consider providing separate unassigned/publication grants to such Postgraduate Centres which are declared autonomous by the universities.

2. The Commission as recommended by the Visiting Committee for Andhra Pradesh may take up with the Central Government the question of removal of exemption from the Presidential order which restricts admission to students of the areas, particularly relating to postgraduate admission.

3. The observations made by the Visiting Committee with regard to the development of academic programmes in the newly established University of Hyderabad may be brought to the notice of that University.

4. A Committee may be appointed to look into the requirements of the Non-Academic staff of the Universities.

R.K. Chhabra,  
Secretary

Satish Chandra  
Vice-Chairman

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