

# UNIVERSITY GRANTS COMMISSION

## AGENDA AND PROCEEDINGS

NO-168

12<sup>TH</sup> MAY 1975

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Minutes of the 168th meeting of the University  
Grants Commission held on May 12, 1975.

The following were present:

Professor Satish Chandra	Vice-Chairman (In the Chair)
Professor K.S. Sharma	Member
Professor S. Gopal	Member
Professor M. Santappa	Member
Professor J.B. Chitambar	Member
Professor B.M. Udgaonkar	Member
Shri R.K. Chhabra	Secretary

Shri K.N. Channa, Dr. Ajit Mozumdar, Professor Rais Ahmed, Dr. Amarjit Singh and Shri K.T. Chandy regretted their inability to attend the meeting.

Secretariat

Dr. D. Shankar Narayan	Additional Secretary
Dr. J.N. Kaul	Joint Secretary
Dr. S.K. Das Gupta	Joint Secretary
Shri S. Viswanath	Deputy Secretary
Shri I.C. Menon	Deputy Secretary
Dr. S.C. Goel	Deputy Secretary
Dr. M.L. Mohita	Deputy Secretary
Dr. T.N. Hajela	Deputy Secretary
Shri Y.D. Sharma	Deputy Secretary
Shri R.P. Bhattacharjee	Finance Officer

Before taking up the formal agenda, the Vice-Chairman referred to the demise of Dr. S. Radhakrishnan on April 17, 1975. The Commission then placed on record its deep sense of sorrow and serious loss at the passing away of Dr. Radhakrishnan, an eminent educationist and philosopher statesman. The Commission observed a minute silence in memory of the departed leader and resolved to convey its sense of sorrow to the members of the bereaved family.

Item No. 1: To receive the minutes of the meeting of the Commission held on 14th April, 1975.

The minutes of the 167th meeting of the University Grants Commission held on 14th April 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 1\*

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\* Not enclosed.

Item No.3 To approve the statement of grants released after the last meeting of the Commission held on 14th April, 1975.

The Commission approved the grants released after the meeting of the Commission on 14th April 1975 (Appendix II\*)

Item No.4; To receive a statement of expenditure incurred by the University Grants Commission during 1974-75 upto 31st March, 1975.

This was noted.

Item No.5; To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 15th April, 1975.

This was noted.

It was agreed that the statement indicating the progress of issue of utilization certificates may henceforth be placed before the Commission after two months. The statement should also be brought up-to-date i.e. upto 1973-74.

Item No.6: To consider a reference from the Government of India, Ministry of Education & Social Welfare regarding payment of maintenance grants to "deemed" Universities by the University Grants Commission.

The Commission agreed that responsibility for payment of maintenance and development grants to the Tata Institute of Social Sciences, Bombay and the Central Institute of English and Foreign Languages, Hyderabad, may be taken over by the University Grants Commission on the definite understanding that adequate funds required for the purpose, including those required consequent upon the revision of scales of pay and payment of revised dearness allowances will be placed at the disposal of the Commission as non-Plan funds.

With regard to the remaining "Institutions deemed to be Universities", it was suggested that the matter may be further discussed with the Government of India.

The Commission further desired that in keeping with the general policy that the maintenance and development grants may be paid from the same source, as far as possible, the question of transfer of work relating to the payment of maintenance grants to the Indian Institute of Science, Bangalore and the Indian School of Mines, Dhanbad, may be pursued with the Ministry of Education.

\*Not enclosed.

Item No.7: To consider proposals received from the colleges which are not at present participating in COSIP for participation in College Humanities & Social Sciences Improvement Programme(CCHSIP).

The Commission agreed that the list of colleges selected for participation in the CCHSIP Programme may be finalised in the light of the discussions held at the meeting of the Commission. The list of such colleges finally selected may be reported to the Commission.

Item No.8: To consider the proposal of the Kashmir University for grant of Rs. 1.89 lakhs for meeting the salaries and other recurring expenditure for the financial year 1974-75 in respect of Gulmarg Research Observatory.

The Commission regretted its inability to accept the proposal of the Kashmir University for a grant of Rs. 1.89 lakhs for meeting the salary and other recurring expenditure for the year 1974-75 in respect of Gulmarg Research Observatory and reiterated its earlier decision that the recurring expenditure for this as on 1.4.1975 should be treated as committed expenditure of the University.

The Commission was further of the view that the staff and other facilities available at the Observatory should be integrated with the Department of Physics of the University.

Item No.9: To consider the recommendations made by the Panel on History about the development of museums and provision of audio-visual aids in the universities and development of studies in the History of Science.

The Commission agreed to assist the universities to acquire audio-visual aids, e.g. transparencies, plaster casts and epidiascopes etc. for the Departments of History and Archaeology and agreed to provide a grant upto Rs. 15,000 to a selected department for the purpose in the Fifth Plan period.

It was further agreed that a grant upto Rs.20,000/- may be provided to the Universities which have already working museums in history and archaeology for further development of such museums during the Fifth Plan period. The Commission desired that proposals may be invited from the universities and examined.

In connection with the development of studies in the history of science, the Commission desired that proposals may be invited in this regard from the universities which have strong departments of science, history and philosophy. Normally, such programmes will be organised on an inter-departmental basis. The Commission would provide salary of a teacher either in the Lecturer's or Reader's grade on cent per cent basis during the Fifth Plan period. Such assistance may be provided on



condition that the institutions will take over the liability after the Commission's assistance ceases at the end of the Fifth Plan. Proposals in this regard may be invited from the universities.

In this connection, it was noted that the Panel on History and Archaeology had suggested the setting up of a Museum of Man. The Commission was in general agreement with this suggestion and desired that the matter may be taken up with the Department of Culture.

Item No.10: To consider the question of assessment of the work of the Junior Research Fellows so as to become eligible to receive fellowships at Rs.500/- p.m.

The Commission noted the increase in the value of Junior Research Fellowship from Rs. 300/- to Rs. 400/- w.e.f. 1.7.1974 and that to Rs.500/- subject to evaluation of the work of the fellow at the end of two years of fellowship. The date from which this increase from Rs.400/- to Rs. 500/-p.m. is to be made effective was considered and it was agreed that this may be made with effect from 1.7.1975 subject to the condition that each fellow to be evaluated for the purpose would have held the junior fellowship for not less than two years, of which at least for one year the fellowship would have been at Rs. 400/-p.m.

The Commission further agreed that the procedure for evaluation of the fellow's work at the end of two years may be uniform for all research fellows supported by the Commission. The mechanics for evaluation of the fellows work may be worked out with the help of a Committee.

Item No.11: To consider the question of institution of posts of Readers in Colleges.

The Commission desired that the proposal for instituting Readerships in Colleges be referred back to the sub-committee for consideration.

Item No.12: To consider the Report of the Visiting Committee to Universities in Kerala (Cochin, Calicut and Kerala).

The Commission desired that the report of the Visiting Committee to the Universities of Kerala State 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.

Item No.13 To consider the Report of the Visiting Committee to Himachal Pradesh University.

The Commission generally accepted the report of the Visiting Committee appointed to assess the Fifth Plan requirements of the Himachal Pradesh University. The Commission desired that the report may be sent to the University and it may be requested to indicate the items to be taken up at a cost not exceeding Rs. 75 lakhs during the Fifth Plan including the spill-over.

Item No.14 To consider the question of increasing the amount of Hari Om Ashram Trust awards from Rs.10,000/- to Rs. 15,000/- each.

The Commission was of the view that individual awards under the scheme should not generally exceed Rs. 10,000 in value, even though there is increase in income from the endowment. However, where the award is shared by more than two persons, the minimum value of each of the awards should not be less than Rs. 5,000/-. The Commission felt that any saving arising from the income from the endowment could be used for instituting separate awards, for example, in an area on inter-action between science and society and this could be negotiated with the donors, namely, Hari Om Ashram Trust.

Item No.15 To consider the trends in different states regarding failure rates at the first and second degree examinations.

This was noted. It was agreed that this may be referred to the Implementation Committee on Examination Reforms.

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 in Bombay on June 2, 1975.

Item No.17: To consider the rules governing Commission's grant towards students' Aid Fund for the Year 1975-76 to affiliated colleges.

The Commission approved the rules governing Commission's grant towards Students Aid Fund for the year 1975-76 to the affiliated colleges of the Universities.

Item No.18: To consider the proposal of the Roorkee University for running special one-year pre-admission course for Scheduled Castes and Scheduled Tribes students.

The Commission desired that this may be discussed with the Vice-Chancellor, Roorkee University in the first instance.

Item No.19: To consider further the question of reservation for Scheduled Castes and Scheduled Tribes in the matter of appointments to teaching posts in the universities.

The Commission desired that in the first instance the matter may be referred to the Committee of Vice-Chancellors of Central Universities for their views. In this connection, it was reported that the Ministry of Education had asked for the views of the

Commission regarding the reservations made under Section 6(2) of the Kerala University Act, 1974. It was agreed that this may be brought up before the Commission again after the Committee of Vice-Chancellors of the Central Universities had considered the general question referred to above.

Item No.20: To consider the Budget Estimates for the year 1975-76 - PLAN

The Commission noted that the provision of Rs. 30.20 crores had been made by the Government of India under Plan for the UGC for 1975-76. In addition, an opening balance of Rs. 1.77 crores was available to the Commission under Plan.

The budget estimates for 1975-76 prepared by the office of the Commission had been scrutinized by the Planning Group and it has been endorsed that to meet the minimum requirements of the universities and the colleges, a sum of Rs. 35.3303 crores would be required by the Commission. The Commission while agreeing to operate on a budget of Rs. 35.3303 crores as given in Appendix III desired that the Government of India be requested to provide additional funds essentially required to meet the gap between the amount suggested in the Budget Estimates and the amount actually available, i.e. about Rs. 3.36 crores. The Commission further agreed that the expenditure on payment of grants to the Universities and Colleges would be limited to Rs. 31.9764 crores until such time the Government of India are in a position to provide additional funds to the Commission. The Commission further stressed the urgency in intimating the overall allocation available during the Fifth Plan by the Government of India, (a) for development of engineering and technological education in the universities and (b) for medical colleges of the Central Universities and the Hospitals attached to them.

It was noted that the other recommendations of the Planning Group would be placed before the Commission at its next meeting.

The Commission noted that a provision of Rs. 21.08 crores has been proposed during 1975-76 under non-plan, which included a provision of Rs. 3 crores for revision of scales of pay and the increase in dearness allowance in respect of Central Universities and Delhi Colleges. The Commission desired that the exact requirements of the Central Universities and the Delhi Colleges in this regard may be worked out as early as possible and if the funds provided were not adequate, the Government of India may be approached to provide additional funds after taking into account the amount already spent for these items during 1974-75.

Item No. 21 : To consider certain establishment matters of the University Grants Commission.

- (i) To consider the request of Shri S.P. Bhatia Personal Assistant, for further extension of time limit for completion of construction of the house.
- (ii) To receive a note regarding grant of extensions in service to the employees of the University Grants Commission beyond the age of superannuation.

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(i) The Commission as a special case agreed to grant further extension of time limit upto 3rd July, 1975 to Shri S.P. Bhatia, Personal Assistant, for the completion of the house as well as other formalities under the rules in view of the circumstances of the case.

(ii) The Commission on reconsideration agreed to grant extension in service to Shri R.L. Shrivastava, Assistant Secretary, for a period of one year in the first instance, w.o.f. 16th August, 1975 on attaining the age of superannuation.

Item No. 22 : To consider a proposal received from the Visva-Bharati relating to the comprehensive programme of Pali Samgathana Vibhaga, Sriniketan.

The Commission agreed to the proposal of the Visva-Bharati for creating a post of Special Officer (rural extension) and making appointment to the same on condition that the expenditure on this will be the first charge on the Fifth Plan allocation of the University. The other requirements of the University for rural extension may be considered by the Visiting Committee which will examine the Fifth Plan requirements of the University.

Item No. 23 : Short Term Institutes.

It was brought to the notice of the Commission that earlier it had been mentioned that no honorarium would be admissible to the Directors, academic staff, guest lecturers and Visiting Lecturers of the short-term institutes being organized with Commission's support. The Commission agreed that honorarium may be admissible to the Director, academic staff, guest lecturers, and visiting lecturers provided the Commission's contribution towards the organisation of the short-term institute would not exceed the limit already agreed to under the Faculty Improvement Programmes.

R.K. Chhabra  
Secretary

Satish Chandra  
Vice-Chairman

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III  
Appendix to minutes of the U.G.C.  
meeting dated 12.5.1975 (Item No.20)

BUDGET ESTIMATES FOR 1975-76 (PLAN)

	<u>Budget Estimates in lacs of Rupees</u>
A. Grants to Central & State Universities for Humanities	257.25
B. Grants to Central & State Universities for Science.	769.51
C. Grants to Central & State Universities for Engg. & Tech.	285.31
D. Grants to constituent/affiliated colleges	466.95
E. Grants to Central & State Universities for Misc. Schemes.	1,322.01
F. Misc. Expenditure	32.05
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Total:	3,133.08
Ad-hoc requirement on the basic of recommendations of Visiting Committees to Universities.	400.00
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GRAND TOTAL:	3,533.08
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The Budget Estimates of 1975-76 also includes the following:

1) Engg. & Tech.	285.31
I.I.Sc. Bangalore	106.06
Indian School of Mines, Dhanbad	10.00
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	401.37
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2) Provision for Medical Colleges & Hospitals attached to Central Universities.	153.80

A. <u>GRANTS TO CENTRAL AND STATE UNIVERSITIES FOR HUMANITIES.</u>	Budget Estimates <u>1975-76 (in lakhs)</u>
1. Staff	44.55
2. Buildings	37.75
3. Equipment (Technical)	7.60
4. Books and Journals	49.50
5. <u>Support for Research</u>	
a) Centres of Advanced Study	9.00
b) Special Assistance to selected Departments	4.00
c) Area Studies.	13.25
d) Financial assistance to teachers for research work	4.00
e) Project support	6.25
f) Departmental/Institutional support	-
g) Research fellowships	80.20
6. Other schemes.	1.15
7. Support from Research and Development	-
TOTAL 'A'	<u>257.25</u>

B. GRANTS TO CENTRAL AND STATE UNIVERSITIES FOR SCIENCE.	Budget Estimates 1975-76(in lakhs)
1. Staff	23.85
2. Buildings,	70.70
3. i) Payment under Dollar Loan for Equipment	-
ii) Other equipment	162.15
4. Books and journals	50.80
5. <u>Support for Research</u>	
a) Centres of Advanced Study	76.45
b) Special assistance to selected Departments.	70.21
c) Financial assistance to teachers for research work	11.50
d) Project support	85.00
e) Department/Institutional support	20.00
f) Research Fellowships.	111.85
6. Development of Computer facilities.	66.50
7. Central Instrumentational facilities.	20.00
8. Other schemes.	0.50
9. Support from Research. and Development.	-
TOTAL 'B'	769.51

C. GRANTS TO GENERAL AND STATE  
UNIVERSITIES FOR ENGINEERING  
AND TECHNOLOGY.

(B.E. 75-76  
Rs. in Lakhs)

1. Staff and maintenance	50.00
2. Construction of buildings.	50.00
3. Purchase of equipment	75.00
4. Library books and journals	20.00
5. Misc. schemes.	2.00
6. Junior fellowships. . . . .	75.00 . . . . .
7. Research fellowships.	10.66
8. Construction of hostels.	2.10
9. Construction of staff quarters.	0.05
10. Revision of salary scales.	0.50
TOTAL 'C'	285.31



D. GRANTS TO CONSTITUENT/  
affiliated colleges.

B. E. 75-76  
(Rs. in lakhs)

1. Three lakh scheme (continuing from IVth Plan)	
a) Construction of hostels	40.00
b) Laboratory and Library facilities	100.00
c) Construction of staff quarters	30.00
d) Books and Journals	10.40
e) Improvement of Chalk Boards.	1.35
f) Overhead tanks	1.95
g) Cycledshed	3.25
h) Non-Resident Students Centres	17.50
2. Development schemes of colleges to be initiated in Vth Plan.	50.00
3. Development of Postgraduate Studies in Science.	22.40
4. Development of Postgraduate studies in Humanities and social sciences.	11.30
5. Development of colleges in <u>Metropolitan cities</u>	
a) Grants to constituent/ Affiliated colleges of Delhi University for specific purpose.	52.20
b) Maintenance grants to newly established colleges.	-
6. Grants to teacher training colleges.	20.00
7. Development of Autonomous colleges.	15.00

D. CONTD.

8. Students Welfare Programmes

a) Student Aid Fund	35.45
b) Canteens including NRSC	-
c) Water coolers.	0.05
d) Welfare Programme in colleges	4.15
e) Health Centres.	2.25
f) Book Banks	46.00
g) Employment information, career advising and vocational guidance. . . . .	0.30 . . . . .
9. Centenary Grants	1.95
10. Revision of salary scales	0.75
11. Miscellaneous.	0.70

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TOTAL 'D' 466.95

E. GRANTS TO CENTRAL AND  
STATE UNIVERSITIES FOR  
OTHER SCHEMES

B. E. 1975-76  
(Rs. in lakhs)

1. Grants to Jawaharlal Nehru University	159.80
2. Grants to North Eastern Hill University	70.00
3. Grants to Indian Institute of Science, Bangalore.	106.06
4. Grants to Indian School of Mines, Dhanbad.	10.00
5. Grants to New Central Universities (Hyderabad and Pondicherry)	75.00
6. University Postgraduate Centres.	56.35
7. College Science Improvement Programme.	120.00
8. Collège Humanités Improvement Programme.	15.00
9. <u>Faculty Awards</u>	
a) National Fellowships	3.50
b) National Lecturers.	-
c) National Associates.	2.00
d) Sabbatical leave.	0.60
e) Visiting Professorships.	0.30
f) Utilisation of services of retired teachers.	14.00
g) Research Associateships.	7.50
10. <u>Faculty Improvement Programme.</u>	
a) Summer Institutes.	89.00
b) Seminars, Orientation courses and conferences.	15.00
c) Training programme for Laboratory & Workshop technicians.	-
d) New programmes	-

E. Contd.

	<u>B.E. 1975-76</u> (Rs. in Lakhs)
11. Examination Reforms Science Education and Restructuring of courses.	50.45
12. Correspondence courses	16.00
13. Unassigned grants	24.15
14. Publication of research work (including doctorate thesis)	8.75
15. Adult education	5.50
16. Construction of library buildings.	20.60
17. <u>Construction of residential accommodation for teachers</u>	
a) Staff quarters.	34.50
b) Teachers hostels.	15.95
18. a) Construction of hostels.	50.60
b) Improvement of hostel facilities.	0.55
19. Guest Houses.	3.00
20. Printing Press	2.40
21. <u>Welfare Schemes.</u>	
a) Students Aid Fund	12.85
b) Non Resident Students Centre	1.90
c) Student Study Homes.	8.50
d) Health Centres.	9.25
e) Water coolers	2.00
f) Study centres	16.20
g) Visiting Studentships	0.15
h) Employment information career advising and educational guidance for university students	2.30
22. <u>Scholarships</u>	
a) Arabic and Persian	0.70
b) Hill Area scholarships.	3.10
c) Sanskrit/Pali/Prakrit	0.70
23. Cultural and Bilateral Exchange Programmes.	8.20

<u>E. Contd.</u>	<u>B.E. 1975-76</u> <u>(Rs. in lakhs)</u>
24. Indo-USSR Credit project.	12.00
25. <u>Medical colleges</u> <u>(Central Universities)</u>	
a) <u>ALIGARH MUSLIM UNIVERSITY</u>	
i) Building	6.20
ii) Equipment	2.65
iii) Library	1.60
iv) Furniture	0.75
v) Staff & Maintenance	0.30
vi) Other schemes.	5.85
b) <u>BANARAS HINDU UNIVERSITY</u>	
i) Buildings	5.05
ii) Equipment	7.60
iii) Library	1.20
iv) Furniture	-
v) Staff & Maintenance	1.25
vi) Other scheme	1.40
c) <u>DELHI UNIVERSITY</u>	
i) Buildings	
ii) Equipment	
iii) Library	
iv) Furniture	21.50
v) Staff & Maintenance	
vi) Other schemes.	
26. <u>Hospitals attached to</u> <u>Medical colleges of</u> <u>central universities</u>	
i) Non-recurring	72.55
ii) Recurring	25.90
27. <u>Development of Campus</u> <u>(Central Universities)</u>	30.00
28. <u>Students Amenities</u> <u>(Central Universities)</u>	23.40

E. Contd.

B. E. 1975-76  
(Rs. in lakhs)

29. Revision of salary scales of non-technical teachers.	5.00
30. Centenary and Jubilee grants	23.50
31. Three Year Degree Course	-
32. Establishment of Tagore Chairs.	0.70
33. Nanak Chairs & Nanak Centenary	-
34. Gandhi Centenary Programmes.	0.25
35. Gandhi Bhavan.	0.25
36. Collection and Preservation of Manuscripts.	0.30
37. Appointment of Development Officers.	1.40
38. Appointment of Trained coaches.	0.25
39. National Service Scheme.	- (Transferred to Section III)
40. Travel grant to Research fellows/scholars/college teachers for attending conferences within the country and abroad.	1.30
41. Miscellaneous.	27.45
TOTAL 'E'	<u>1322.01</u>

<u>F. MISCELLANEOUS EXPENDITURE</u>	<u>B.E. 1975-76</u> <u>(Rs. in lakhs)</u>
I. Summer Institutes	1.00
II. Cultural and Bilateral Exchange Programme.	11.30
III. Centres of Advanced Study	1.00
IV. TA & DA to non-official members	5.00
V. Additional staff for implementation of Vth Plan scheme	5.00
VI. Publication	5.00
VII. Capital expenditure on UGC. <u>building:</u>	
a) Purchase of electric appliances/air-conditioners etc.	0.25
b) Purchase of motor vehicles.	0.25
c) Construction of UGC Annexe.	-
d) Air-conditioning of building	-
VIII. National Lecturers.	3.00
IX. Status report on various disciplines etc.	0.25
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TOTAL 'F'	32.05

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 12th May, 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 14th April, 1975.
- Item No.2: (a) <sup>62<sup>d</sup></sup> 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 14th April, 1975.
- Item No.4: To receive a statement of expenditure incurred by the University Grants Commission during 1974-75 upto 31st March, 1975.
- Item No.5: To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 15th April, 1975.
- Item No.6: <sup>63<sup>d</sup></sup> To consider a reference from the Government of India. Ministry of Education & Social Welfare regarding payment of maintenance grants to "deemed" Universities by the University Grants Commission. P.1-2 P.3-7
- Item No.7: To consider proposals received from the colleges which are not at present participating in COSIP for participation in College Humanities & Social Sciences Improvement Programme (CHSIP). P.8-26
- Item No.8: To consider the proposal of the Kashmir University for grant of Rs.1.89 lakhs for meeting the salaries and other recurring expenditure for the financial year 1974-75 in respect of Gulmarg Research Observatory. P.27-74

P.T.O.



- Item No.9: To consider the recommendations made by the Panel on History about the development of museums and provision of audio-visual aids in the universities and development of studies in the History of Science. p.75-76
- Item No.10: To consider the question of assessment of the work of the Junior Research Fellows so as to become eligible to receive fellowships at Rs.500/- p.m. p.77-79
- Item No.11: To consider the question of institution of posts of Readers in Colleges. p.80
- Item No.12: To consider the Report of the Visiting Committee to Universities in Kerala (Cochin, Calicut and Kerala). p.81-88
- Item No.13: To consider the Report of the Visiting Committee to Himachal Pradesh University. p.89
- Item No.14: To consider the question of increasing the amount of Hari Om Ashram Trust awards from Rs.10,000/- to Rs.15,000/- each. p.90
- Item No.15: To consider the trends in different states regarding failure rates at the first and second degree examinations. p.91-101
- Item No.16: 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: 12th May, 1975

- Item No.17: To consider the rules governing Commission's grant towards students' Aid Fund for the year 1975-76 to affiliated colleges. p 102-113
- Item No.18: To consider the proposal of the Roorkee University for running special one year Pre-admission course for Scheduled Castes and Scheduled Tribes students. p 114-116
- Item No.19: To consider further the question of reservation for Scheduled Castes and Scheduled Tribes in the matter of appointments to teaching posts in the universities. p 117-122
- Item No.20: To consider the Budget Estimates for the year 1975-76 - PLAN. p 123
- Item No.21: To consider certain establishment matters of the University Grants Commission. p 124-125
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'CHUGH'

UNIVERSITY GRANTS COMMISSION

Minutes of the 167th meeting of the University Grants Commission held on 14th April 1975

The following were present :

Professor P.S. Sharma	Member (In the Chair)
Professor Rais Ahmed	Member
Professor M. Santanna	Member
Dr. Amarjit Singh	Member
Professor J.B. Chitambar	Member
Shri K.T. Chandu	Member
Professor B.M. Udgaonkar	Member
Shri P.K. Chhabra	Secretary

Owing to unavoidable circumstances, Professor Satish Chandra, Vice-Chairman could not attend the meeting. The members present chose Professor R.S. Sharma to preside at the meeting.

Shri K.N. Channa, Dr. Ajit Mazoomdar and Professor S. Gopal regretted their inability to attend the meeting.

Secretariat

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

Item No. 1: To receive the minutes of the meeting of the Commission held on 10th March 1975.

The minutes of the 166th meeting of the University Grants Commission held on 10th March 1975 and the record of discussions held at the Commission's emergency meeting on 22nd March 1975 were confirmed.

With regard to Item No.28 of the minutes, the Commission desired to know if in the past extensions beyond the age of 58 years had been generally agreed to in all cases.

It was agreed that this information will be placed before the Commission.

- 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 accented by the Commission.

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

(b) This was noted.

The Commission desired that a Committee may be set up to suggest measures which would help the Universities to utilize fully and effectively the available rupee foreign exchange. The Commission desired that a note may also be prepared justifying the additional requirements of foreign exchange for the Universities from hard currency area.

Item No. 3: To approve the statement of grants released after the last meeting of the Commission held on 10th March 1975

The Commission approved the grants released after the meeting of the Commission held on 10th March 1975. (Appendix II\*)

Item No. 4: To receive a statement of expenditure incurred by the University Grants Commission during 1974-75 upto 28th February 1975.

This was noted.

In this connection, it was observed that due to non-availability of funds under non-plan for revision of scales of pay and enhancement of dearness allowance, a sum of Rs.103.01 lakhs was temporarily re-appropriated towards the end of 1974-75 from plan resources to non-plan resources. The Commission felt concerned about this and desired that the Government of India be requested not only to provide necessary funds in 1975-76 to replenish the amount so utilized from plan budget but also to ensure that such exigencies do not arise in future and the amount required consequent upon the increase in the dearness allowance or the revision of scales of pay is made available to the Commission in time.

It was further noted that the Budget of the University Grants Commission for 1975-76, keeping in view the likely funds to be provided, will be placed before the Commission in its meeting to be held in May 1975.

The Commission further desired that a Committee may be appointed to review the functioning of the Gandhi Bhawans.

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\* Not enclosed

Item No. 5: To receive a statement indicating the progress of issue of utilization certificates during the period ending 15th March 1975.

This was noted.

Item No. 6: To consider the proceedings of the meeting of the Science Research Council held on 7th February 1975.

This was noted.

The Commission emphasised the need and urgency of establishing appropriate links between the Universities, the National Laboratories and other Scientific Research Institutions. These links should initially in the form of (a) exchange of personnel, (b) joint support for research projects of mutual interest, and (c) provision of a certain number of fellowships to enable the University people to work in the C.S.I.R. and other Laboratories and vice-versa. The S.R.C. may be requested to make specific proposals to implement these suggestions.

The Commission again stressed the need of setting up of Regional Instrumentation Centres for providing adequate maintenance and service facilities and for encouraging design and fabrication of indigenous equipment. Setting up of such Centres could be undertaken wherever appropriate in coordination with the Department of Science and Technology which has also plans for setting up such service Centres.

As regards the recommendation made by the S.R.C. to provide a basic grant as a core-support for research to every teacher, the Commission felt it may neither be possible nor desirable to provide such support on a per capita basis. On the other hand, a grant could be placed at the disposal of each University for providing such support to individual teachers provided the concerned University would agree to share the expenditure on some agreed basis. The S.R.C. may be requested to suggest suitable guidelines for purpose of utilization of such a grant by the universities.

Item No. 7: To consider a reference from the Government of India, Ministry of Education & Social Welfare regarding payment of maintenance grants to "deemed" Universities by the University Grants Commission.

Consideration of this item was postponed to the next meeting.

Item No. 8: To consider the question of assistance to Universities for field work in different disciplines.

The Commission agreed to the continuation of assistance for field work to postgraduate students in geology, geo-physics and applied geology during the

current plan period provided the concerned Universities agree to treat this an committed expenditure at the end of the Fifth Plan.

As regards extension of similar assistance for field work in other subjects, the Commission's support for field work should depend on (a) whether field work is an integral part of a course prescribed by the university, (b) whether marks are earmarked for field work and (c) whether the universities themselves have made any provision for this.

The Commission desired that information in this regard may be obtained from the universities and considered by the respective Subject Panels.

Item No. 9: To consider the question of laying down certain norms in respect of bifurcated colleges for bringing them within the purview of Section 2 (f) of the UGC Act.

The Commission was not generally in favour of establishment of uni-faculty colleges. If, however, there is a proposal to split an existing college into more than one independent unit, the universities may be advised to consult the Commission before a final decision is taken to split a college into two or more units. Further, the Commission felt that the colleges resulting from such division including the parent institution will have to be treated as new colleges and would have to fulfil the conditions prescribed under Section 12-A in addition to the other conditions laid down in the regulations before they are considered for inclusion in the list under Section 2 (f) of the UGC Act.

Arising out of this, the Commission noted that some proposals have been received by the Commission under its scheme of Rs. 5 lakhs assistance to the affiliated colleges. It was emphasised that assistance of the Commission should be related not only to enrolment but also to the academic performance of the colleges. In this connection, the Commission desired that a suitable method of grading the colleges may be evolved keeping in view the grading system adopted in the case of UGCIEP colleges and the matter brought up before the Commission.

Item No. 10: To consider the question of the fixation of rates of non-practising allowance to be paid to the teaching staff of the Medical Colleges of the Central Universities in the revised scales of pay.

Consideration of this item was postponed to the next meeting.

Item No. 11: To consider the views of the Calcutta and Jadavpur Universities regarding the Memorandum of Association prepared by the Department of Electronics for the Regional Computer Centre at Jadavpur University.

The Commission noted the views expressed by the Calcutta and Jadavpur Universities on the Memorandum of Association suggested by the Department of Electronics for setting up a Regional Computer Centre at Jadavpur University. The Commission felt that since the Regional Computer Centre was being established mainly as an inter-university facility, the University concerned and the UGC should have the major responsibility for administering the Centre. The three agencies concerned with financing of the Regional Centre, namely, the Electronics Commission, the UGC and the Government of West Bengal should be equally represented on the Executive Committee by two members to be nominated by each agency. It should also have a representative of the Calcutta University and two other representatives to provide one each for (a) other universities in the State of West Bengal and other universities in the region in accordance with the rules to be provided for the purpose and (b) other users of the computer. The Vice-Chancellor, Jadavpur University, where the Regional Centre is to be established should be the ex-officio Chairman of the Executive Council and the Director of the Computer Centre should be the Member-Secretary of the Executive Council. The decisions of the Executive Council of the Regional Computer Centre should be outside the purview of the usual statutory authorities of the Jadavpur University.

The Commission agreed that the above views may be communicated to the Electronics Commission with a request that the Memorandum of Association may be revised accordingly and sent to the Commission. It was also agreed that the Jadavpur University be informed that it would be in the interest of efficient functioning of the Regional Centre if a separate Registered Society is constituted to manage this Centre and that in the Executive Council to be provided under the Memorandum of Association, the Vice-Chancellor of the university is the Chairman of the Executive Council and the Director is the Member-Secretary.

It was also noted that the University would have to be suitably compensated for any services and facilities which it may provide for the functioning of the Regional Centre.

Item No. 12: To consider the proposal of the Banaras Hindu University for creation of post of Director for Bharat Kala Bhavan during the Vth Plan period.

This was withdrawn.

Item No. 13: To consider the proposal of the Birla Institute of Technology and Science, Pilani for the post of Development Officer during Fifth Plan.

The Commission desired that the proposal of the Birla Institute of Technology and Science, Pilani, for the post of a Development Officer may be considered by the Visiting Committee along with other proposals of the Institute.

Item No. 14: To note the date and place for the next meeting of the Commission.

It was noted that the next meeting of the Commission would be held in New Delhi on May 12, 1975.

Item No. 15: To consider the report on the working of the instrument cell created at the Indian Institute of Science at Bangalore for indigenous manufacture of Scientific instruments.

The Commission desired that the Visiting Committee which would assess the Fifth Plan requirements of the Indian Institute of Science, Bangalore, may also be requested to consider the possibility of making Instrument Cell as an integral part of the Central Instrumentation and Services Laboratory and its activities. Pending the report of the Visiting Committee, the Commission may continue to assist the Institute for the maintenance of this Cell on the existing basis and the expenditure involved would be a charge on the Fifth Plan allocation.

The other development proposals suggested by the Committee could be considered either as a part of the overall Fifth Plan proposals of the Institute or as specific research projects in consultation with the S.R.C.

Item No. 16: To consider 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 & Journals.

The Commission noted that the initial assistance for the Departments included in the programme of special assistance to Selected Departments had been given for the period of five years (1972-1977) in the first instance and this had been subsequently extended upto the end of the Fifth Plan period on condition



that the committed expenditure would be taken over by the Universities. It was also noted that some of the Departments had utilized fully the grants available to them for purchase of scientific equipment, books and journals and had requested for additional funds required during the rest of Fifth Plan period. The Commission was of the view that, instead of providing a basic grant for these purposes for all the Departments, each proposal may be examined on merit, keeping in view the progress of implementation of the academic programmes of the Departments.

Item No. 17: To consider the question of enhancement of the limit laid down by the Commission for payment of honorarium to the visiting teachers/experts for extension lectures in universities under the "Unassigned Grants"

The Commission agreed that clause (c) of the guidelines in respect of visit of teachers, experts, scientists from within the country under the scheme "Exchange of Teachers" covered under the "Unassigned Grant" may read as follows :

"The Visiting teachers/experts may be paid an honorarium upto Rs. 100 per lecture/seminar, the exact amount to be decided by the Vice-Chancellor. A maximum of Rs. 500/- would be available for an assignment of not less than two weeks' duration."

The Commission noted that the experts who may be invited for lectures/seminars could either be from the university system or from outside the system.

Item No. 18: To consider proposals received from the colleges which are not at present participating in COSIP for participation in college humanities and social science improvement programme (COHSIP)

Consideration of this item was postponed to the next meeting.

Item No. 19: To consider the question of proper functioning of private technical institutions in the country and their further development.

The Commission regretted its inability to accept the suggestion of the Committee appointed by the A.I.C.T.E. that the U.G.C. may undertake on its behalf a review of the existing four engineering colleges in Karnataka which are at present functioning on the basis of capitation fees.

Item No. 20: To consider the general question of financial assistance to universities for celebration of Golden Jubilee during the Fifth Plan period and the proposal of Andhra University for a grant for the Golden Jubilee in 1976.

The Commission agreed that the present level of assistance i.e. Rs. 10 lakhs may be provided to the universities in connection with their Golden Jubilee celebrations. The Commission, however, desired that the universities be advised that at least 2/3rd of such a grant may be used for augmenting research facilities in the university.

Item No. 21: To consider a proposal of the Punjab University for organising a Summer Institute in Analytical Chemistry during 1975.

The Commission accented the proposal of the Panjab University for organising a summer institute in analytical chemistry during 1975 and to provide assistance for the purpose according to the usual norms.

Item No. 22: To consider the proposal of the Kashmir University for grant of Rs. 1.89 lakhs for meeting the salaries and other recurring expenditure for the financial year 1974-75 in respect of Gulmarg Research Observatory.

Consideration of this item was postponed to the next meeting.

Item No. 23: To consider the recommendations made by the Panel on History about the development of museums and provision of audio-visual aids in the universities and development of studies in the History of Science.

Consideration of this item was postponed to the next meeting.

Item No. 24: To consider a proposal for instituting fellowships for foreign students for research work in Indian Universities.

The Commission agreed to the institution of ten junior and five senior research fellowships for foreign students among from developing countries for undertaking research work.

Item No. 25: To consider the question of assessment of the work of the Junior Research Fellows so as to become eligible to receive fellowships at Rs. 500/- p.m.

Consideration of this item was postponed to the next meeting.

Item No. 26: To consider the question of institution of posts of Readers in Colleges.

Consideration of this item was postponed to the next meeting.

R.K. Chhabra  
Secretary

R.S. Sharma  
Chairman of the Meeting.

UNIVERSITY GRANTS COMMISSION

Confidential

Meeting:

Dated: 12th May, 1975.

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

- (1) Utilisation of the Services of Outstanding Retired Teachers - Acceptance of the recommendations of the Selection Committee constituted for the selection of candidates under the Retired Teachers' Scheme.

The Committee constituted by University Grants Commission to recommend selection of Retired Teachers under the Scheme of Utilisation of Services of Outstanding Retired Teachers met on 11th March, 1975 at 2.30 P.M. The Committee considered the nominations/recommendations made by Vice-Chancellors in respect of retired teachers and recommended 23 retired teachers for fresh award under the scheme.

The Committee also considered the proposals received for extension of tenure of the retired teachers already working under the scheme and felt that in those cases recommendations have been received from Vice-Chancellors for extension of tenure of teachers working under the scheme of Utilisation of Services of Retired Teachers, the extensions may be granted for the period as recommended by the Vice-Chancellors subject to a maximum of 2 years or upto the attainment of 68 years of age whichever is earlier. The Committee also resolved that the cases of extension with recommendations of the Vice-Chancellors where the term expires before the next meeting may be decided by the Vice-Chairman as and when they are received. The recommendation of the Vice-Chancellor, Indore University, in regard to the extension of Dr. R.K. Yarday was accepted by the Committee in the light of this decision.

The minutes of the meeting of the Selection Committee appointed under the Scheme of Utilisation of Services of Retired Teachers is placed at Appendix-I.

The recommendations made by the Selection Committee at its meeting held on 11th March, 1975 have been accepted (vide orders dated the 20th March, 1975 and 6th April, 1975).

Extensions of tenure under the Retired Teachers Scheme given to 32 teachers as given in Appendix-II.

- (2) Acceptance of the recommendations regarding the Selection of National Associates by subject panels under the Scheme of National Associateship.
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In the year 1970, the University Grants Commission initiated the scheme of National Associateship to enable outstanding young teachers from universities and colleges engaged in research to visit and work for short periods at University Centres, Research Institutions, National Laboratories etc., which have special facilities relevant to their respective fields of study and research. Initially, the Commission instituted 100 positions. Later this has been raised to two hundred by the Commission at its meeting held on 10th December, 1973.

The Commission at its meeting on 10 December, 1973 inter-alia decided that the selection of National Associates may be done in consultation with the subject panel.

Accordingly, the nominations received under the National Associateship Scheme were referred to subject panels of Geography, Mathematics, Biological Sciences, Chemistry and History which met and recommended candidates for award under the Scheme as given below:-

Name of the subject panel.	Date of meeting.	No. of applications referred.	No. of applications recommended by the Panel.
1. Geography	16.11.74	4	-
2. Mathematics	22.11.74	21	2
3. Biological Sciences:	30.11.74	59	
(a) Botany			7
(b) Zoology			1
(c) Microbiology			2
(d) Biochemistry			1
(e) Medicine			1
		Total:	12
4. Chemistry	28.12.74	56	10
5. History	15. 1.75	10	5
	Grand Total:	150	29

The above panels recommended 29 candidates for selection under the National Associateship Scheme. The list of persons recommended is given in Appendix. The recommendations made for selection of National Associates by subject panels have been accepted. The total position filled in so far is one hundred thirty one (vide orders dated 19.2.1975).

- (3) Economy in Expenditure Temporary ban on construction of buildings.
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The Commission at its meeting held on 8th July, 1974 had considered the memorandum issued by the Government of India in respect of economising expenditure by continuing temporary ban on construction of non-functional buildings. As decided at the meeting, the Government of India was requested to treat buildings required for libraries, laboratories including workshops and animal houses, classroom accommodation and such other buildings as may be required for installation/housing of scientific equipment as functional. It was further requested that any other building that may have to be constructed be considered on merits of each case.

The Government of India has accordingly re-considered the matter and in relaxation of the earlier orders, it has been decided now that buildings required for installation/housing of scientific equipment, laboratory, library and workshop buildings are exempt as a class of functional buildings. Class-room accommodation and lecture theatres in existing institutions only, will also be exempt from the ban, subject to the condition that the load of expenditure in the next year (1975-76) is kept within the level of reduced provision for the year. Other non-functional buildings like residential hostels and administrative buildings would continue to be banned.

This decision of the Government of India has since been brought to the notice of universities (vide orders dated 21.3.1975). The universities have further been requested that this decision may also be brought to the notice of colleges affiliated to them.

The Government of India, Ministry of Education and Social Welfare has further been requested to reconsider the question of lifting ban on the construction of Students Hostels since hostels are necessary for reducing the growth of ~~new~~ colleges as also for ensuring access to higher education to the under-privileged classes/sections of society. It has also been brought to the notice of the Govt. of India, that the Commission has already decided that in the Fifth plan where institutions are assisted by the UGC to construct hostels for students they would be required to reserve 20% of the seats in such hostels for students belonging to Scheduled Castes and Scheduled Tribes.

The Ministry of Education had also earlier desired that the provision of hostel facilities be given top priority by all universities and colleges receiving assistance from the Commission. The decision in this regard is awaited.

- (4) Extension to the Deptt. of Chemical Engineering construction of Building.

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The Commission on the recommendation of the Visiting Committee approved the construction of building for the Department of Chemical Engineering at the estimated cost of Rs.3 lakh in the Banaras Hindu University. The university sent a plan and estimates amounting to Rs.3,50,300/- for the work. The Commission in view of the blanket ban imposed by the Government of India on the construction of new buildings, returned the plan and estimates to the University. The Banaras Hindu University resubmitted the plan and estimates for the approval of the Commission and stated that the project would be included in the Vth plan.

The Commission in view of the urgency of the project has accepted (vide orders dated 18.3.1975) the proposal of the University to start construction of the extension of the Department of Chemical Engineering building; as per plans and estimates amounting to Rs.3.02 lakhs as indicated by the C.P.W.D.

- (5) Junior Research Fellowships/P.G.Scholarships to the students belonging to the Hill Areas of North Eastern India.

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The Commission awards 20 P.G.Scholarships/Junior Research Fellowships every year to the students belonging to the Hill Areas of Assam/Arunachal Pradesh/Manipur/Nagaland/Meghalaya/Mizoram or undertaking research work/post-graduate studies in Sciences and Humanities (including social Sciences). The value of the scholarship is Rs.1800/- p.a. for P.G. Studies. The value of Junior Research fellowship has been increased from Rs.300/- p.m. to Rs.400/-p.m. for the first two years and Rs.500/- p.m. for subsequent two years with effect from 1.7.1974. On the recommendations of the Committee consisting of Dr. C.D. Davanesan, Vice-Chancellor, North Eastern Hill University. 2. Dr.A.N. Mitra, Department of Physics, Delhi University, 3. Dr. K.N. Saxena, Deptt., of Zoology, Delhi University and 4. Dr.C.P. Bhambri, Department of Pol. Science, Jawaharlal Nehru University, 27 P.G.Scholarships/Jr. Research Fellowships have been awarded to the candidates listed below during the year 1974-75 (vide orders dated 6.12.1974).

A. Post-Graduate Scholarship

S. No.	S.No. of Synopsis	Name of the Candidate	Name of the Department	Name of the University
1	2	3	4	5
1.	9	Shri sangkima	History	Gauhati Univ.
2.	11	Shri David Reid Syiemlieh.	History	N.E.H.Univ.
3.	13	Shri Lal Rinawma	History	N.E.H.Univ.
4.	21	Km. Belic Nongrum	Pol.Sc.	N.E.H.Univ.
5.	22	Shri H.Venlalhluna	Pol.Sc.	N.E.H.Univ.
6.	26	Km. Malsawmthangi	Education	St. Mary College Shilong, Gauhati
7.	29	Km. Womsilet Shilla	Economics	Gauhati
8.	32	Shri Thanga Chungnanga	-dc-	Gauhati
9.	48	Shri Bulganin Nehru Lamare	Mathematics	N.E.H.Univ.
10.	50	Shri Ropiangliana	Botany	Gauhati
11.	59	Shri Pillarson G. Momin	Geography	Jawahar Lal Nehru Univ.
12.	S-4	Km. Nola Rosamund Rynjah	English	N.E.H.University
13.	S-10	Km. Fairycia Kharmawphlang	History	N.E.H.University
14.	S-13	Shri Hoster Mawrie	Pol.Sc.	N.E.H.University
15.	S-23	Shri Ishultim Gyatso	Budha Darshan	V.S.Vishvadi- yalaya. Gauhati
16.	S-24	Km. Akcijam Indumati Devi	Anthro- pclogy	Gauhati
17.	4	Km. Joy Kumari Lalsram	English	Delhi
18.	30	Km. Sapna Bora	Economics	Delhi School of Economics.
19.	36	Shri Darryl Anthony Feegrade War.	Economics	N.E.H.University
20.	56	Km. C.Thanthianga	Zoology	N.E.H.University
21.	34	Miss magdalene Badwar	Economics	N.E.H.University
22.		Shri Lama Labzang Thinles.	Ancient Indian History	Magadh

JUNIOR RESEARCH FELLOWSHIP

1.	2	Shri Kansam Ibo Singh	History	Jawaharlal Nehru
2.	3	Shri Sheikh Mohammad Abdul Wakil Chishti	Pol.Sc.	A.M.University
3.	7	Shri Kenneth Chawng- liana.	Sociology	Poona
4.	8	Km. Tiplut Nongbri	Sociology	Delhi
5.	10	Shri Chilakhan Sraman (munglang)	Buddist Studies	Delhi

- (6) Support for advanced research in the Humanities and Social Sciences - acceptance of the proposal of Dr. P.R. Panchamukhi, Reader in Economics of Education, Bombay University.
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The panel on psychology which had two experts in Education at its meeting in October 1974 considered the proposal of Dr. P.R. Panchamukhi for undertaking work on "the size-cost relationship in institutions of higher education in three adjoining states" at a total cost of Rs.46,725/-. The panel felt that it would be useful if the project is delimited to the Maharashtra State and the cost is revised accordingly. Dr. Panchamukhi was requested to revise his proposal in the light of the views expressed by the panel. He agreed to the suggestion made by the panel and submitted a revised project at a total cost of Rs.26,198/-. The revised proposal of Dr. Panchamukhi has been accepted (vide order dated 9.3.1975) and a grant of Rs.26,198/- has been approved for his project for appointment of one research Assistant and three Investigators, travel, stationery printing, computation, equipment and books needed for the project.

- (7) Proposals of the colleges accepted under COHSIP.
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The University Grants Commission at its meeting on the 10th February, 1975 (Item No.9) generally accepted the recommendations of the Conference of Principals of Colleges selected for participation in the College Humanities and Social Sciences Improvement Programme, and noted the colleges recommended by the selection committee for participation in the Programme on the basis of approved criteria.

42 COSIP Colleges selected under COHSIP were requested to revise their proposals in the light of the guidelines formulated in the Principals conference. Proposals received from 27 of these Colleges have been processed and grants have been approved for initiating COHSIP as per details given in Appendix. The remaining 15 colleges have been requested to send their proposals at an early date. The Colleges have also been requested to give details of the equipment and audio-visual aids needed by them under COHSIP and to be managed centrally for the benefit of all participating departments. Further grants will be sanctioned wherever necessary and on receipt of the above information.



- (8) Centres of Advanced Study in Humanities & Social Sciences - Release of basic grant for the purchase of books & journals and equipment during the Fifth Plan period.

The University Grants Commission at its meeting in January 1975 decided that the Vth/proposals of the Centre of Advanced Study be examined by the assessment committees which reviewed their working during the 10 year period of their existence. It was decided that pending consideration of their Fifth Plan development proposals basic grants be sanctioned to them for purchase of books and journals and equipment (vide orders dated 17.2.1974) during the Fifth plan Period. The amount sanctioned to each Centre is indicated below:-

S.No.	Name of the Centre	Amount sanctioned during the Fifth plan Period as basic grant.	
		Books & Journals Rs.	Equipment Rs.
1.	CAS in Economics, Poona University.	65,000	40,000
2.	CAS in Economics, Delhi University	40,000	5,000
3.	CAS in Economics, Bombay University	45,000	15,000
4.	CAS in Sanskrit, Poona University	25,000	-
5.	CAS in Philosophy, Madras University	55,000	5,000
6.	CAS in Linguistics Annamalai University	50,000	60,000
7.	CAS in Sociology, Delhi University	40,000	5,000
8.	CAS in History, A.M.University. Aligarh	15,000	5,000
	Total:-	3,35,000	1,35,000/-

(9) Senior Research Fellowships in the Humanities  
Extension of tenure of Dr.(Smt.) Rama Chatterjee

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Senior Research fellowships are tenable for a period of two years and may be extended to the third year wherever necessary. Dr. Rama Chatterjee was awarded Senior Research Fellowship w.e.f. 15.5.1972 to work at the Centre of Advanced Study in Ancient Indian History and Culture, Calcutta University. Her fellowship tenure was extended for a period of one year w.e.f. 15.5.1974. On the recommendations of the Head of the department the tenure of her fellowship has been extended for a further period of six month w.e.f. 15.5.1975 vide order dated 10.4.1975 as a special case tenable her to complete her work.

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(10)

(10)

Support for advanced research in the humanities and social sciences - acceptance of the proposals of Prof. B.B.Lal for undertaking "Archaeological excavation at Ayodhya."

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The University Grants Commission at its meeting held on 10th February, 1975 (item No.28) accepted the recommendation made by the panel on History that the University Grants Commission should provide academic staff for the purpose of excavation and or for publication of the report whereas the cost of excavation work should be met by the Archaeological Survey of India. The Commission desired that the proposal of Prof. B.B.Lal for undertaking archaeological excavation at Ayodhya may be further examined in the light of the above and authorised the Chairman to take action in the matter.

The proposal of Prof. B.B.Lal for undertaking "Archaeological excavation at Ayodhya" has been accepted (vide orders dated 2.4.1975) under the UGC scheme of support for advanced research in the humanities and social sciences and a total grant of Rs.60,000/- has been released on an ad-hoc basis for staff and equipment needed for the excavation work. The expenditure on equipment will be shared on 50:50 basis by the Archaeological Survey of India. Professor Lal has been requested to formulate his budget for the project indicating estimated expenditure on staff, equipment and field work etc. in a phased manner. Reply from him is awaited. The Archaeological survey of India has also been requested to meet the entire cost of excavation and 50% cost on equipment needed for the project. Reply from the Archaeological Survey of India is also awaited.

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- (11) Admissibility of house rent allowance to the employees of the University Grants Commission drawing pay upto Rs.900/- without production of rent receipts.

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The Government of India orders contained in the Ministry of Finance (Department of Expenditure) Office Memorandum No.F.2(55)-E.II(B)/73 dated the 4th October, 1974 regarding admissibility of house rent allowance to Central Government employees on the recommendations of the Third Pay Commission, which are effective from 1st November, 1973, have been made applicable to the employees of the University Grants Commission w.e.f. 1st November, 1973 as per orders dated the 23rd April, 1975.

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- (12) Sanctioned strength of Education Officers/ Assistant Secretaries in the University Grants Commission.

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In pursuance of the decision of the Commission taken at its meeting held on the 5th November, 1969 and subsequently at its meeting held on the 6th September, 1972, all vacancies including short-term and long-term which were to arise after the 5th November, 1969 in the cadre of Education Officer were to be treated to have occurred in the cadre of Assistant Secretary by keeping in abeyance the posts of Education Officer and creating "in lieu" posts of Assistant Secretary thereof until the cadre strength was brought to 8. The eighth post of Assistant Secretary has been filled by the candidate on the select list for the post by suspending lien of an Education Officer who is working as Deputy Secretary by resorting to the provisions of Fundamental Rule 14. The sanctioned strength of 8 as on 1.3.1975 in the cadres of Education Officer and Assistant Secretary stands notified as under vide Office Order dated 14th April, 1975:-

Education Officers : 8 (4 in abeyance) -|- 1  
supernumerary

Assistant Secretaries : 8 -|-4 supernumerary

The 4 supernumerary posts in the cadre of Assistant Secretary created by keeping in abeyance the 4 posts of Education Officer are held in an officiating capacity against short-term vacancies in the cadre of Education Officer; 3 of them being on account of officiating promotion of 3 Education Officers as Deputy Secretaries as a temporary measure and one against the incumbent of the post of Education Officer being presently on deputation abroad in the United Kingdom on Queen Elizabeth House Visiting

Fellowship. As at present, the four supernumerary posts in the cadre of Assistant Secretary mentioned above are to last upto 30th June, 1975, 31st July, 1975, 30th September, 1975 and upto the appointment as regular measure to be made to the post of Deputy Secretary reserved to be filled against the outside quota for a scheduled Tribe candidate.

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- (13) Special Pay to the incumbent of the post of Cashier in the office of the University Grants Commission w.e.f. 1st January, 1973.

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In accordance with the provisions of the Ministry of Finance (Department of Expenditure) Office Memorandum No.F. 11(42)-L.III(B)/60 dated the 9th January, 1974, the rates of special pay to the incumbents of the post of Cashier in the revised scale of pay as prescribed therein have been made applicable in the office of the U.G.C. w.e.f. 1st January, 1973 (vide orders dated 11.4.1975) subject to the terms and conditions contained in Ministry of Finance (Department of Expenditure) Office memoranda dated the 4th September, 1961 and 28th June, 1962.

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- (14) Laying down the procedure for filling up the vacant post of Deputy Secretary in the University Grants Commission.

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The Commission at its meeting held on 9th September, 1974 (Item No.2(a) -12) noted the action taken to fill the vacant post of Deputy Secretary against the recruitment quota of 25% in the cadre of Deputy Secretary by direct recruitment through advertisement by following the prescribed roster for reserved vacancies. The post of Deputy Secretary which as per roster is reserved for the category of Scheduled Tribes was accordingly advertised but none of the candidates belonging to this category has applied for the post. In view of the emphasis laid by the Parliamentary Committee on Scheduled Castes and Scheduled Tribes at its meeting held on 12-13th March, 1975 for filling the posts for

reserved categories by candidates belonging to these categories, it has been decided on the 6th April, 1975 to consult the Department of Personnel, Cabinet Secretariat, New Delhi, State Govts. and Universities with a view to see if they could make available the services of a suitable officer in accordance with the terms of the Cadre and Recruitment Rules for the post of Deputy Secretary on transfer on deputation. They have been requested to suggest suitable names (along with biodata) by the 16th May 1975.

.....

(15) University Grants Commission Contributory Provident Fund-Rates of Interest.

The Government of India have fixed the rates of interest on deposits on balances etc. at the credit of subscribers in the General Provident Fund and other similar Funds on the 31st March, 1974 as under:-

- |     |                         |  |
|-----|-------------------------|--|
| i)  | w.e.f. 1st April, 1974  | 6.5% per annum on a sum upto Rs.15,000/-         |
|     |                         | 5.8 per annum on a sum in excess of Rs.15,000/-  |
| ii) | w.e.f. 1st August, 1974 | 7.5% per annum on a sum upto Rs.25,000/-         |
|     |                         | 7.0% per annum on a sum in excess of Rs.25,000/- |

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 Commission (Vide orders dated 26.3.1975) for subscriptions and on balances at the credit of subscribers to the University Grants Commission Contributory Provident Fund in terms of Rule 12(1) of the U.G.C. C.P.F. Rules, 1956.

.....

- (16) Extension of tenure of the temporary ad-hoc-post of Officer on Special Duty.

.....

The tenure of the temporary ad hoc post of Officer on Special Duty created w.e.f. 31st May, 1974 (forenoon) and reported to the Commission vide Item No.2(a)(16) at its meeting held on 8th July, 1974 which was fixed for one year i.e. upto 30th May, 1975 (afternoon) has been extended (vide orders dated 18.4.1975) for a period of one year from 31st May, 1975 (Forenoon) to 30th May, 1976 (afternoon).

- 
- (17) Development of higher education and Research: Utilisation of the grants available for purchase of Scientific Equipment.

...

The question of proper utilisation of grants made available by the Commission to Universities/Colleges having undergraduate/postgraduate Science departments for purchase of scientific equipment was recently considered and it has been decided (vide orders dated 19.3.1975) that the following general conditions would govern such grants sanctioned by the Commission from time to time:-

GENERAL

1. The allocations sanctioned for purchase of scientific equipment under the general development should be utilised for purchase of equipment required for undergraduate and postgraduate teaching laboratories and as a general principle 2/3rd of the grant allocated for equipment be utilised for this purpose. The allocation available for general development should not generally be used for purchase of highly sophisticated equipment which may be purchased from funds sanctioned for research projects.
2. The equipment grant should not normally be utilised for providing consumable articles, for example Glassware or routine chemicals. But in special cases upto 5% grant may be utilised for provision of consumable articles, such as research chemicals.
3. An amount not exceeding 5% of the equipment grant may be utilised for providing storage facilities.

4. Since all efforts have to be made to ensure that all equipments available are put to effective use, an amount not exceeding 5% of equipment grants may also be utilised on maintenance/repairs/purchase of spares/service contracts and other maintenance needs wherever necessary subject to the condition that such expenditure will be incurred only where necessary and, in addition, to the normal provision already made for such purposes by the universities/colleges from the normal budget.
5. Universities/colleges may also utilise upto 20% of the grant for purchase of materials, components and other items if required for fabrication and development of equipment in the departments/colleges with the help of workshop facilities in the university or college or locally. Such expenditure will also be admitted as expenditure incurred from the provisions made for purchase of scientific equipment grants to each department/college. Items of such Equipment indigenously made up may be reported to the Commission.
6. The Commission will have the right to transfer . . . . . to another University an apparatus of the value of Rs.20,000/- or more purchased from funds made available under this grant, if the same is no longer required. A separate list of such items of equipment, the cost of which is/or exceeds Rs.20,000/- may be sent to the Commission for its record.

These conditions have been brought to the notice of the various university departments and also colleges affiliated to the university for information and guidance.

...

Minutes of the Selection Committee appointed under the Scheme of Utilisation of Services of Retired Teachers.

....

A meeting of the Committee appointed for the selection of candidates under the Scheme of Utilisation of Services of Outstanding Retired Teachers was held on 11th March, 1975 at 2.30 p.m. The following were present:-

1. Prof. Satish Chandra
2. Prof. R.S. Sharma
3. Prof. Rais Ahmed
4. Prof. J.B. Chitambar
5. Dr. D. Shankar Narayan
6. Shri I.C. Menon
7. (Mrs.) S. Ramamurthy

The following members could not attend the meeting:-

1. Prof. M. Santappa
2. Prof. S. Gopal

Item No.1: To consider the proposal received for new awards under the Scheme of Utilisation of Services of Outstanding Retired Teachers.

The Committee noted that out of total 300 positions available under the scheme of Utilisation of Services of Retired Teachers, there are 122 vacant positions available. It was also noted that in response to the nominations invited for the second award under the scheme of retired teachers for 1974-75, a total of 141 nominations have been received and only in 34 cases comments have been received from both the referees. The Committee considered the nominations/recommendations made by Vice-Chancellors in respect of these 34 candidates and recommended 20 retired teachers (Annexure-I) for award under the scheme to be made effective from 1st March, 1975 onwards for a period of three years or attainment of 68 years whichever is earlier.

In the case of prof. A.B. Dadarkar, the Committee observed that the comments of Prof. Aboem of Aligarh Muslim University may be obtained before a final decision is taken in the matter.

The Committee further considered the statement of proposals received for fresh awards which were not included in the synopsis and felt that nominations in respect of eminent retired teachers may be placed before the selection Committee for consideration without making references to experts. Keeping this point in view the Committee recommended 4 other teachers for award as given in Annexure-II



In those cases in which comments of only one expert have been received and hence no decision could be taken, the Committee authorised Vice-Chairman to decide each case as and when comments from both the experts are received.

Item No.2: To consider the proposal received for extension of tenure of the retired teachers already working under the Scheme of Utilisation of Services of Retired Teachers.

....

The Committee felt that in the case of recommendations received from Vice-Chancellors for extension of tenure of teachers working under the Scheme of Utilisation of Services of Retired Teachers, the extensions may be granted for the period as recommended by the V.C. subject to a maximum of two years or 68 years of age, whichever is earlier. It was also resolved that the cases of extension with recommendations of the Vice-Chancellors, where the term expires before the next meeting may be decided by the Vice-Chairman as and when they are received. The recommendation of the Vice-Chancellor, Indore University in regard to the extension of Dr. R.K. Yarday was accepted by the Committee in the light of this decision.

....

ANNEXURE-I

List of candidates recommended by selection Committee  
for fresh award at the meeting held on 11.3.1975.

(a) From the synopsis of 34 candidates

S.No.	Name of the Candidate	subject	Name of the University	Remarks
1	2	3	4	5
1.	Dr. Jillella Venketeswarulu.	Botany	Andhra Univ.	
2.	Dr. M.Anathaswamy	-do-	Mysore Univ.	
3.	Dr. B.M. Jehri	-de-	Delhi Univ.	Upto 68 years of age (Upto 10.9.1977)
4.	Prof. B.V.Thosar	Physics	Bombay Univ.	
5.	Dr. N.S. Pandya	-do-	M.S.Univ. of Baroda.	
6.	Dr. J.S. Rawat	Bio-Chemistry.	Agra Univ.	
7.	Dr. A.K. Majumdar	Chemistry	Jadavpur Univ.	
8.	Dr. B.P. Yadava	Chemistry	Lucknow Univ.	
9.	Shri N.N. Ghosh	Chemistry	Calcutta Univ.	Upto 68 yrs. of age (Upto 31.1.1978)
10.	Sri P.A.Ramakrishna Iyer	Zoology	Bangalore Univ. (Central College Bangalore).	
11.	Br. P.S. Mene	Chemical Engg. & Technology	Nagpur Univ. (Laxminarain Instt. of Tech. Nagpur).	
12.	Shri B.N. Narayana Iyengar	Elec.Engg.	I.I.Sc., Bangalore.	
13.	Dr. A.R. Kamat	Statistics	Poona Univ. (Gokhale Instt. of Politics & Economics).	
14.	Dr. H.D. Sankalia	Ancient History & Archeology	Poona Univ. (Deccan College post-graduate and Res. Instt.)	(Upto 68 yrs. of age (Upto 11.10.76)
15.	Shri H.M.Shankarnarayan Rao	Kannada	Mysore Univ.	
16.	Shri S.Hariharan	Sanskrit	Calicut Univ.	
17.	Dr. K.V.R.Narasimhan	Telugu	AndhraUniv.	
18.	Shri K.subbaramappa	Telugu	Andhra Univ.	
19.	Dr. B.S.R. Rao	Geo-physics	Andhra Univ.	
20.	Shri A.P.Srinivasa Murty	Economics	Mysore Univ.	

...

ANNEXURE II

(B) List of teachers recommended for award under the Scheme of Utilisation of Services of Outstanding Retired Teachers without making references to Experts.

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S.No.	Name of the applicant	Subject	Institution	Remarks
1	2	3	4	5
1.	Dr. N.H. Hashmi	Urdu	Lucknow Univ.	
2.	Dr. S.R. Maitra	physiology.	Calcutta Univ.	
3.	Dr. J.B. Bhimasenachar	Physics	Sri Venkateswara Univ.	
4.	Dr. G.C. Verma	History	Rajasthan Univ. University	Since he has already been under the scheme his case may be treated as an extension case and award may be given upto the age of 68 years or for a period of two years which is earlier.

APPENDIX II to Item No.2(a)(1)

List of applicants who have been recommended  
for extension of tenure by the Vice-Chancellors  
of the respective universities.

S.No.	Name and Institution	Subject	Period for which extension to be given.	University recommending the award.
1	2	3	4	5
1.	Dr.(Mrs.) Binapani, Mukherjee, Deptt., of Geography.	Geography	2 yrs. from 3.3.75	Calcutta Univ.
2.	Shri T. Govindarajan Mathematics Department, Govt. College, Salem.	Mathematics	2 years from 26.6.75	Madras Univ.
3.	Dr. N.L. Ghosh, Deptt. of Mathematics Burdwan University	-do-	from 1.9.75 to 31.12.1976	Burdwan Univ.
4.	Shri A.M. Satya Mesian Training College, Madras.	Education	One year, from 1.2.75 to 31.1.1976	Madras Univ.
5.	Dr. Sadasiv Misra, Deptt. of Economics, Ravenshaw College, Cuttack.	Economics	2 years, from 21.7.74	Utkal Univ.
6.	Mr. W.V. Venkat Rao Postgraduate Deptt., of English, Pachaiyappa's College, Madras.	English	2 years, from 3.10.75	Madras Univ.
7.	Shri S.S.Srivastava Deptt. of English S.S.V.College, Hapur	-do-	2 years, from 1.7.1975	Meerut Univ.
8.	Shri B.R.Krishnamoorthy, Deptt., of English, Pachaiyappa's College, Madras.	-do-	2 yrs, from 15.3.1975	Madras Univ.
9.	Dr. Rajeshwar Ojha, School of Languages, Jawaharlal Nehru Univ., New Delhi.	-do-	2 yrs., from 7.8.1975	Jawaharlal Nehru University.
10.	Dr. Hardev Bahri, Deptt., of Hindi, Allahabad University.	Hindi	2 yrs., from 1.8.1975	Allahabad Univ.
11.	Sh. E.K.Narayanan Potti, Deptt., of Malayalam, S.K.V. College, Trichur.	Malayalam	2 yrs. from 15.12.1974	Calicut Univ.
12.	Sh. V.S.Subrahmaniam Sastry, Deptt., of Sanskrit, Madras University.	Sanskrit	2 yrs. from 1.7.1975	Madras Univ.

p.t.c.

1	2	3	4	5
13.	Shri P.Pradhan, Deptt. of Sanskrit, Ravenshaw College, Cuttack.	Sanskrit	2 yrs, from 3.3.1975	Utkal University
14.	Dr. T.E.Gnanamurthy Deptt. of Tamil, P.S.G. Arts College, Coimbatore.	Tamil	2 yrs, from 1.6.1975	Madras University
15.	Mary Masillamani, Deptt. of Tamil, Women's Christian College, Madras.	-do-	1 year, from 1.9.1975	Madras University
16.	Dr. V.S. Rao, Deptt., of Botany, Andhra Univ. Waltair	Botany	2 yrs. from 23.6.1975	Andhra University
17.	Dr. V.puri, Deptt., of Botany, Mserut University.	-do-	2 yrs. from 1.7.1975	Meerut University
18.	Prof. Abde Ali, Osmania University, Hyderabad.	Ceramic Technology	2 yrs. from 4.12.1974	Osmania University
19.	Dr. Rajendralal Nath Deptt. of Chemistry R.K.M.Residential College, Narendrapur	Chemistry	2 yrs. from 9.3.1975	Calcutta Universit
20.	Dr. S.P. Tondon, Deptt., of Chemistry, Allahabad University	-do-	2 yrs, from 6.3.1975	Allahabad Universi
21.	Dr. T.S. Mahabale, Deptt., of Botany, Maharashtra Associa- tion for the Cultiva- tion of Science, Poona.4.	Botany	2 yrs., from 21.3.1974	Poona University
22.	Dr. D.S. Gaur, Deptt., of Medicine, Banaras Hindu Univ., Varanasi.	Medicine	2 yrs, from 4.11.1974	B.H.University
23.	Shri V.K.Alexander, Deptt., of Psychology, Union Christian College Alwaye, Kerala State.	Psychology	2 yrs, from 2.4.1975	Kerala University
24.	Dr. B.D. Shukla, V.S.S.D. College, Kanpur.	History	2 yrs., from 30.3.1975	Kanpur University
25.	Dr. Bai Mukund Gupta, Department of Hindi, Christ Church College, Kanpur.	Hindi	2 yrs, from 17.7.1975	Kanpur University

1	2	3	4	5
26.	Shri Cherukatgovinda Pisharodi, Govt. Sanskrit College, Pattambi	Malayalam	2 yrs, from 6.3.1975	Calicut Univ.
27.	Dr. Sarvanand Pathak, Deptt., of Sanskrit, Ranchi University	Sanskrit	2 yrs, from 1.11.1974	Patna University
28.	Shri G.N.Chakravarti, Deptt., of Sanskrit, Mysore University	-do-	2 yrs. from 17.3.1975	Mysore University
29.	Dr. Amalendu Baghchi, Department of Sanskrit, Ravindra Bharati, Calcutta.	-do-	2 yrs, from 11.11.1974	Ravindra Bharati Calcutta.
30.	Shri P.C. Jain, Deptt. of Sanskrit, Rajasthan University, Jaipur.	-do-	2 yrs, from 21.2.1975	Rajasthan Univ.
31.	Dr. G.C. Verma	History	2 yrs.	Rajasthan Univ.
32.	Shri R.K. Yandy	Economics	upto the / sixty eight years from 11.3.1975	Indore Univ.

/ attainment of

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Appendix to Item No.2(a)(2)

List of candidates selected under the scheme of  
National Associateship 75.

S.No.	Name of the candidate	Subject	Sponsoring University/ College.
1	2	3	4
1.	Dr. <del>Pravajit</del> Singh	Mathematics	Kurukshetra University
2.	Dr. M.L.H.Kaul	Botany	-do-
3.	Dr. Avtar Krishan Matoc	Microbiology	M.S.Univ., of Baroda
4.	Dr. Suneela Mavin Kurve	-do-	Bombay University
5.	Dr. Samir Bhattacharya	Zoology	Visva-Bharti
6.	Dr. Prakashnath Srivastava	Botany	Jodhpur University
7.	Dr. M.G.Deshmukh	-do-	Marathwada University
8.	Dr. K.C. Gupta	-do-	Vikram University
9.	Dr. Bhavdish Narain Johri	Microbiology	Saugar University
10.	Dr. Ashish Kumar Chandra	Botany	Calcutta University
11.	Dr. C.B.S.R.Sharma	-do-	Berhampur University
12.	Dr. Pushpa Kulkarni	Applied Biochemistry	Bombay University
13.	Dr. Gokaran Prasad Katiyar.	Pediatrics	Banaras Hindu Univ.
14.	Dr. A.M. Bhandari	Chemistry	Jodhpur University
15.	Dr. Mahipal Singh Tomar	-do-	Saugar University
16.	Dr. K.N. Swamy	-do-	Nagpur University
17.	Dr. P. Natarajan	-do-	Madras University
18.	Dr. Animesh K. Ghose	-do-	Allahabad University
19.	Dr. Chandra Sekhar Panda	Chemistry	Berhampur University
20.	Dr. Avijit Banerji	-do-	Calcutta University
21.	Dr. Vasant H.Kulkarni	-do-	Karnatak University
22.	Dr. Rajesh Kumar Baslas	-do-	Kumaon University
23.	Dr. S.C. Mehra	-do-	Agra University
24.	Dr. Kasturi Viswanath	Mathematics	Madurai University
25.	Dr. Majid Hayat Siddiqui	History	Jawaharlal Nehru Univ.
26.	Sri Vidyadhar Misra	-do-	Allahabad University
27.	Dr. Karuna Sagar Behera	-do-	Utkal University.
28.	Dr. Thimmareddy	Archeology	Andhra University
29.	Mohd. Ashiqullah Khan	History	Ravi Shankar Univ.

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Appendix to Item No.2(a)(7)

S.No.	Name of the College	Grant approved p.a. for a period of 3 years.	Date of approval
1.	Sri Padmawati Women's College, Tirupati.	Rs. 33,000/-	17.2.1975
2.	Jagannath Barooch College, Jorhat.	30,000/-	17.2.1975
3.	T.N.B.College, Bhagalpur	28,000/-	10.4.1975
4.	St. Xavier's College, Ahmedabad	8,000/-NR 5000/-	6.2.1975
5.	Nalini & Arvind Arts College, Vallabhvidyanagar.	31,000/-	5.2.1975
6.	University College, Trivandrum	24,000/-	11.2.1975
7.	The Guruvayurappan College, Kozhikok.	14,000/-NR 5000/-	5.3.1975
8.	Wilson College, Bombay	27,000/-	17.3.1975
9.	Ramnarayan Ruia College, Bombay	40,000/-	17.2.1975
10.	Sophia College, Bombay	40,000/-	30.2.1975
11.	H.P.T.College, Nasik	31,000/-	17.2.1975
12.	Sri Parashurubhan College, Poona	42,000.00	17.2.1975
13.	Mount Carmel College, Bangalore	25,000/-	17.2.1975
14.	Ravenshaw College, Cuttack	28,000/-	NR(-5000/-)
15.	D.A.V. College, Jullundur	62,000/-	18.1.1975
16.	Govt. College, Ajmer	33,000/-	12.2.1975
17.	Vivekananda College, Madras	56,000/-	26.1. 1975
18.	St. Joseph's College, Tiruchirapalli	20,000/-	17.2.1975
19.	Presidency College, Madras	25,000/-	12.2.1975
20.	Seethalakshmi Ramaswami College, Tiruchirapalli.	16,000/-	12.2.1975
21.	P.P.N. College, Kanpur	37,000/-NR 3000/-	17.2.1975
22.	Acharya Narendra Dev Mahapalika Mahavidyalaya, Kanpur	44,500/-NR 3500/-	17.2.1975
23.	D.A.V. College, Muzaffarnagar	26,500/-	12.2.1975
24.	S.D.College, Muzaffarnagar	40,000/-	19.2.1975
25.	Vidyasagar College, Calcutta	26,000/-	11.2.1975
26.	The Ramakrishna Mission Vidya Mandir, Belunmath.	25,000/-	17.2.1975
27.	Ramakrishna Mission Residential College, 24, Parganas.	30,000/-	12.2.1975

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 12th May, 1975

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 14th April, 1975.

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P L A N

S.No.	Subject	No. of instalment	Amount
1.	<u>Agra University</u>		
	Purchase of Furniture for Home Science Institute.		5,000
	Purchase of Books & Journals for the Home Science Institute (Basic Grant).		10,000
	49th All India Educational Conference held in December, 1974.		2,000
	Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.		56,000
	-do-		84,000
	<u>Affiliated Colleges</u>		
	St. John's College, Agra.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences - Payment of second instalment of grant.	2nd & final 500
	Radhaswami Educational Institute, Degree College, Agra.	Implementation of the Scheme Introduction of work experience in the Colleges - Payment of grant-in-aid.	2,500
	D.E.I. Women's Training College, Dayalbagh, Agra.	-do-	5,000
	Agra College, Agra.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final 250

Agra University (Contd.)

affiliated colleges

S.R.K. (E.C.) College, Firozabad, Agra.	Development of play fields and purchase of accessories for games and sports.	2nd & final	1,150
Kishori Raman Girls Degree College, Mathura.	Grant towards the loan of books to students-setting up of Book banks.	1st	8,437
U.P. College of Veterinary Science and Animal Husband- ary, Mathura.	Utilisation of Services of outstanding retired teachers - payment of grant in respect of Dr. Indra Gupta.		4,000
Indian Veterinary Research Institute, Izat Nagar.	Senior/Junior Research Fellowships in Sciences/ Humanities including Social Sciences/Research Fellowships in Engineering & Technology - Payment of fellowship and contingency grant.		2,942.86
Smt. B.D. Jain Girls. Degree College, Agra Cantt.	Construction of Class-rooms	3rd & final	2,872
Dayanand Arya Kanya Degree College, Morababad.	Expansion of Science Education.	4th	20,000
N.M.S.N. Dass College, Budaun.	Students Aid Fund in the Colleges-Grant for 1974-75.		1,014
Raja Balwant Singh College, Agra.	-do-		2,815
Dharma Samaj College, Aligarh.	-do-		5,000
U.P. College of Veterinary Science and Animal Husbandry, Mathura.	-do-		750
Gokuldas Hindu Girls College, Morababad.	-do-		8,750

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Total: 2,22,980.86

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2. Aligarh Muslim University

Junior Research Fellowships in Sciences - Implementation of scheme during 1975-76.	1st	2,00,000
Construction of Library Building at the Women's College - Fourth Plan Scheme.		28,000
UGC Scholarships for Hons. Studies in Arabic to Shri Zafar Alam.		1,200
Centre of Advanced Study in History - Approval of Basic grant for equipment and books and journals during the Fifth Plan period.		20,000
Installation and Maintenance of IBM 1130 Computer - Recurring Grant.		24,527.81
Basic grant for the purchase of equipment during V Plan for development of Engineering and Technology.		75,000
Special Grant for purchase of Equipment and Audio Visual Aids - Department of Education.		15,000
Replacement of Furniture of Students Union Hall.		40,000
Senior/Junior Research Fellowships in Sciences - Payment of fellowship and contingency grant.		2,000
Construction of building for the diploma course in Business Management.	5th	15,000
Development of Area studies programme during V Plan period - Basic grant for purchase of library books and journals.	1st & final	25,000
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	1,000
Senior/Junior Research Fellowships in Sciences - Payment of contingency grant.		1,500
-do-		2,900
-do-		1,250
-do-		1,500
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.		1,30,000

Aligarh Muslim University (Contd.)

Award of Junior Fellowships of the value of Rs.400/- p.m. to the students admitted to Post-graduate courses in Engineering and Technology during the year 1973-74 and 1974-75. 3,50,000

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Total: 9,32,877.81

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3. Allahabad University

Junior Research Fellowships in Sciences - Implementation of scheme during 1975-76. 1,50,000

-do- 1,00,000  
Senior/Junior Research Fellowships in Sciences - Payment of contingency grant. 922.81

-do- 2,600  
5,000

UGC Assistance for the Research Project entitled "Metal Chelate Formation Involving Carcinogenic, Anticancer and Antitubercular Compounds as Ligands" of Dr. A.K. Dey, Department of Chemistry, Fifth Five Year Plan period - Approval for the appointment of J.R.F. and release of the 1st instalment of grant.

Financial Assistance to Teachers for research work in Sciences. 2nd & final 250

-do- 2nd & final 375

Purchase of furniture and exhaust fans for Zoology Department - Sanction of grant for. 8,000

Construction of overhead tank and tubewell in the Department of Chemistry - Sanction of grant for. 20,000

Purchase of Living Room Furniture for G.N.Jha Hostel - Sanction of grant for. 5,000

Rewiring in G.N. Jha Hostel - Sanction of grant for. 15,000

Writing of university level books/monographs. 2,000

Allahabad University (Contd.)

Programme of Special Assistance to Selected Departments - Department of Physics - Books & Journals - Recurring grant.	10,000
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Affiliated Colleges

Evening Christian College, Allahabad.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	250
-do-	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Dr. A.K. Mitra, Department of Botany.		2,000

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Total:	3,23,397.81
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4. Andhra University

Basic grant for the purchase of scientific Equipment during the 5th Five Year Plan Period - P.G. Centre, Guntur.	1st	1,00,000
-do-		50,000
Writing of University level books/monographs.		6,652
-do-		932.14
Programme of Special Assistance to Departments - Department of Botany.		22,178
Students' Aid Fund - 1974-75.		13,458
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	500
Seminar on "Problems of teaching Mind in South Indian Universities.	final	5,008
Introduction of correspondence courses.		1,00,000
College Science Improvement Programme - University Leadership Project in Physics - Grant-in-aid.	6th	1,50,000
Programme of Special Assistance to Selected Department of Physics.		83,517
-do-		27,000

Andhra University (Contd.)

Purchase of Motor Van for the Arts Department - Payment of grant.		3,000
Payment of Unassigned grant - 1974-75.		28,000
Establishment of Study Centres - Payment of grant.	2nd	45,000
Construction of first floor over Commerce College Building - IV Plan.	2nd	50,000
Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,86,000
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellowships in Engineering and Technology.- Payment of fellowship and contingency grant.		2,998.77
Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,24,000
Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences - Payment of second instalment of grant.	2nd & final	375

Affiliated Colleges

Kakraparti Bhavan-arayana College, Vijayawada.	Construction of Non-Residents Students Centre.	final	5,000
D.H.R. College, Bhimavaram.	Construction of Residential flats for teachers - Payment of grant.	3rd	25,000
Pedandipadu College of Arts and science, Pedandipadu, Guntur.	Construction of additional teaching accommodation - Payment of grant.	3rd	10,000
Governmt College, Srikakulam.	Construction of/purchase of laboratory equipment.	2nd	3,893.69
Vemulapalli Kodandaramaiah College, Buddhawaram.	Construction of Additional Class-rooms.	6th	9,000
Hindu College, Guntur.	Construction of Science Block - Payment of grant.	3rd	60,000
Vemulapalli Kodandaramaiah College, Buddhawaram.	Construction of N.R.S. Centre.	final	2,000

Andhra University (Contd.)

Affiliated Colleges

Chundi Ranganayakulu College, Chilakalu- mpst.	Purchase of Chalk Board - Payment of grant.	1st & final	1,000
Sir C.R. Reddy College, Elura.	Grant towards the loan of books to students-setting up of book banks.	1st	11,250
Government Degree College, Nidadavele.	-do-	1st	8,000
Shrimathi Kandukuri Rajyalakshami College for Women, Rajahmundry:		1st	8,000
Government Degree College, Nidadavelu.	-do-	1st	8,000
The Maharajah's College of Education, Vizianagram, Government College, Rajahmundry.	Students' Aid Fund in the Colleges-Grant for 1974-75.		301
D.R. Gochka Government College, Tadepalligadam.	-do-		400
Government College for Women, Srikakulam.	-do-		1,000
The Bapatla College of Arts and Science, Bapatla.	-do-		750
			1,340
Total:			11,53,603.00

5. Annamalai University

Senior/Junior Research Fellowships in Science - payment of fellowship/ honorarium and contingency grant.		2,061.29
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	53,000
	-do-	84,000
Development Schemes under 4th Plan period - Construction of a composite building.	1st	50,000

P.T.O.

Annemalai University (Contd.)

Centre of Advanced Study in Marine Biology - Release of grants for 1974-75 in respect of Junior Research Fellowships.		61,467
Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Sciences - Payment of second instalment of grants.	2nd & final	1,500
-do-	2nd & final	500
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	250
Development Schemes under 4th Plan period - construction of students Home.		10,000
Centre of Advanced Study in Linguistics - Fellowships/Scholarships - Grant for 1974-75.		75,000

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Total: 3,41,778.29

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6. A.P. Singh University

Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	8,000
-do-	1st	12,000

Affiliated Colleges

Government College, Shahdol.	Development of Post-graduate Studies in Science subjects - Department of Botany - Sanction of grant for.	3rd	5,500
-do-	Development of Postgraduate Studies in Science subjects - Department of Physics - Sanction of grant for.	3rd	4,500

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Total: 20,000

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Banaras Hindu University

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of fellowship and contingency grant.		2,835.71
-do-		1,500
-do-		1,500
-do-		864.52
-do-		193.55
-do-		2,942.86
-do-		2,835.71
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,44,000
-do-	1st	2,17,000
Senior/Junior Research Fellowships in Science/Humanities/Engineering and Social Science - Extension in Fellowship tenure - payment of fellowship to -		3,316.13
-do-		2,425.81
-do-		1,500
-do-		1,500
-do-		1,381.20
-do-		1,457.72
-do-		2,623.04
-do-		2,600
-do-		2,942.86
Seminar on "Democracy in India - Challenges and Perspectives" during April 1975.		10,000
Improvement of Water-Supply and Sewerage for the B.H.U Campus.	1st	24,600
Award of Scholarship of the value of Rs.75/- p.m. to Undergraduate student admitted to IVth and Vth year of 6 year integrated course in Engineering and Technology 1970-71 and 1971-72 batch.		73,800
Payment of Junior Fellowships to the students admitted to the P.G. Courses in Engineering and Technology during the year 1974-75		1,80,000
Payment of Recurring grant to meet the requirements of the Banaras Hindu University arising out of equipment acquired by the Science Departments under the U.S. Million Dollar Loan Scheme.	final	36,904.20
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	375

Banaras Hindu University (Contd.)

Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	375
Construction of 3 Warden's Quarters at Chiragaon Rural Health Centre of the Department of Preventive and Social Medicines of Institute of Medical Sciences.	1st	60,000
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of fellowship and contingency grant.		2,857
Programme of Special Assistance to Selected Department - Department of Botany- Non-recurring 'Books & Journals' grant release of.		23,000
-do-		23,000
Basic grant for purchase of Books and Journals for the Institute of Medical Sciences during the Fifth Plan.	4th	1,00,000
Boring a Tubewell and providing V.T. or Sub-main pumping set at Chiragaon Rural Health Centre of the Department of Preventive and Social Medicine of the Institute of Medical Sciences.	2nd	10,000
Senior/Junior Research Fellowships in Sciences - Payment of fellowship and contingency grant.		2,941
Payment of Recurring grant for Pay of Additional Staff (Recurring) of Women's College under 4th Plan Development Scheme.	8th & final	14,481
Setting up of the Central Instrumentation and Service Laboratory at B.H.U. - Purchase of Mass Spectrometer - Release of grant.		12,90,82
Construction of an Extension to International Hostel under Students Amenities Programme.	2nd	1,00,000
Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences.	2nd & final	1,000
Construction of Boundary Wall in the Panchkocchi area for the residents of the new Medical Enclave and Improvement of the existing Boundary Wall of the Campus.	2nd	2,00,000

• Banaras Hindu University (Contd.)

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of Contingency grant.		1,500
-do-		3,500
Construction of Building for the Department of Electronics Engineering.	4th	48,000
Programme of Special Assistance to Selected Departments - Department of Zoology - Purchase of Equipment.		1,00,000
Visit of Dr. R.K. Jha, Reader in Electronics Engineering, Institute of Technology to U.K. under the Programme of Exchange of Visits by Younger Scientists between India and U.K. during 1973-74.		8,270
Construction of Applied Arts Building - 2nd Phase -	7th	1,90,000
Purchase of furniture for the Applied Arts Building - 2nd Phase.	1st	35,000
Introduction of Postgraduate diploma course in Business Management - Construction of building.	6th	30,000
Development of Engineering and Technology during IV Plan - Extension of Mechanical Engineering Building.	2nd	50,000
Programme of Special Assistance to Selected Department - Department of Botany - Purchase of Equipment - release of grant - regarding.		50,000
All India Seminars on "Educational Reforms".		9,177
UGC Assistance for the research project intitled "Endocrine and neuronal doctrine physiology in some fresh water fishes with special reference to reproduction and water pollution" submitted by Dr. A.G. Satnyanasan of the B.U.U. Approval and release of grant.		10,000

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Total: 30,72,036.47

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8. Bangalore University

Wifth Plan proposals - Introduction of subjects with vocational clas.		2,50,000
Utilisation of Services of Outstanding Retired Teachers -		4,000
Payment of grant in respect of Dr. K. Subramanyan.		
Writing of University level books/monographs.		1,000
Senior/Junior Research Fellowships in Sciences - Payment of fellowship and contingency grant.		2,700
Junior Research Fellowship in Humanities and Social Sciences -	1st	22,000
Implementation of scheme during 1975-76.		
-do-	1st	44,000
-do-	1st	86,000
Award of P.G. Scholarships of the value of Rs.400/-p.m. to the I & II year students of 1974-75, admitted against approved intake in the faculty of Engineering and Technology including Pharmacy.		1,30,000
Establishment of Book-Bank in Engineering and Technology, Department of the University.	final	18,750

Affiliated Colleges

Evening College of Arts and Commerce, V.V. Puram, Bangalore.	Grant towards the loan of books to students-setting up of book banks.	1st	8,500
Nijaningsappa College, Bangalore.	College Science Improvement Programme - Selected Colleges Project Grant-in-aid.	2nd	80,000
Govind Ram Saksharia Science College, Belgaum.	Grant towards the loan of books to students-setting up of book banks.	1st	8,500
B.M.S. College of Engineering, Bangalore.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,750
Ramnarayan Chellaram College of Commerce, Bangalore-1.	-do-		1,284

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Total: 6,38,484

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9. Berhampur University

Grant for the purchase of books and furniture for the Students Home.		10,000
Unassigned grant for the year 1974-75.		10,000
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	12,000
-do-	1st	10,000
Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences - Payment of 2nd instalment of grant.	2nd & final	1,000

Affiliated Colleges

Khallikote College, Berhampur.	Grants to college libraries for loan of books to students (Book Bank).	2nd & final	5,500
Vikram Dey College, Vovoore.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - regarding.		750
Women's College, Berhampur.	-do-		519
Government Training College, Berhampur (Ganjam).	-do-		750
Government Evening College, Berhampur.	Grant-in-aid to Govt. Evening College, towards the purchase of library books.	2nd & final	365

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Total: 50,884

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10. Bhagalpur University

Unassigned grant for 1974-75.	1st	15,000
Assistance for Research Project entitled 'The Impact of bank financing of Agriculture in the District of Bhagalpur.'	1st	5,000

P.T.O.

Bhagalpur University (Contd.)

Junior Research Fellowships in Sciences - Implementation of scheme during 1975-76.	1st	33,000
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Affiliated Colleges

Marwari College, Bhagalpur.	Assistance for Research Project entitled 'The Socio-Economic condition of workers employed in the Tassar Silk and Dyeing Industry of Bhagalpur City in Bihar.		4,000
T.N.R. College, Bhagalpur.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	650
S.P. College, Danka, Bihar.	Grants to colleges for Laboratory equipment.	2nd & final	1,300

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Total:	58,950
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11. Bhopal University

All India Youth Festival 'Spirit 75' at Maulana Azad College of Technology, Bhopal during 1975.		5,000
Grant for the purchase of scientific equipment during the 5th Five Year Plan Period.		30,000
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	8,000
-do-	1st	12,000

Affiliated Colleges

M.S. College of Technology, Bhopal.	Research Fellowship in Engineering & Technology Shri S.R. Jain (375) - Additional Contingency grant.		2,000
M.L.B. College, Bhopal.	Development of Postgraduate studies in Humanities and Social Sciences - Departments of Physiology sanction of grant for.	3rd	3,000

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Total:	50,000
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12. Bihar University

Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	34,000
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-do-	1st	51,000
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Affiliated Colleges

Ramashbray Baloshwar College, Balainagrah (Samastipur).	Students' Welfare Programme	2nd & final	4,000
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Shree Raghava Prasad Singh College, Jaintpur, Muzaffarpur.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - Regarding.		504
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Hotilal Ramnath College, Amnaur (Saran).	-do-		750
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Jaydom College, Chopra (Saran).	-do-		1,010
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Jawaharlal Nehru Memorial College, Chorasahan	-do-	2nd	30,000
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9, Champaran. L.N. Dubey College, Motihari.	-do-	2nd & final	1,750
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S.K.K. Gosnka College, Bitamarhi.	-do-	4th	15,000
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Total:		1,38,014
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13. Bombay University

Writing of university level books/ monographs.		1,000
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Financial Assistance to Teachers for research/learned work in Sciences and Humanities Social Sciences.	2nd & final	1,000
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Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,50,000
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-do-	1st	1,00,000
Junior Research Fellowships in Science/Humanities and Social Sciences-allocation of funds for implementation of the scheme during 1974-75.	3rd	28,000

Bombay University (Contd.)

Junior Research Fellowships in Science/Humanities and Social Sciences - Allocation of funds for implementation of the scheme during 1974-75.	3rd	28,000
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellowships in Engineering and Technology - Payment of fellowship and contingency grant.		4,260
14th Refresher Course in Nuclear Physics and Solid State Physics and Nuclear and Radiation Chemistry for University Postgraduate Teachers at the BARC.		30,000
Centre of Advanced Study in Economics Joining reports of Dr. (Smt.) Madhuri Sheth and Dr. (Smt.) Indu Kale, Senior Research Fellows.		6,690
Centre of Advanced Study in Applied Chemistry - Release of recurring grants for the year 1974-75 in respect of Senior/Junior Research Fellowships.		61,563
Establishment of Study Centre at Parle College - Release of recurring grant for the year 1973-74.		13,000
40th Annual Conference of Indian Mathematical Society held on 27th to 29th December 1974 at Indian Institute of Technology, Powai, Bombay.		3,000
Centre of Advanced Study in Economics - Awards of Junior Research Fellowships during 1974-75.		12,000
Grant for purchase of equipment and furniture - J.B. Institute of Management Studies.	final	13,66

Affiliated Colleges

Mazarimal Somani College of Arts and Science, Bombay.	Grants to College libraries for loan of books to students (Book Banks).	1st	8,45
Shri Panchan Chomraj (SPK) Mahavidyalaya, Sawantaradi, Ratnagiri.	-do-	1st	8,45



Bombay University (Contd.)

Affiliated Colleges

R.P. Gozate College, Ra'nagiri.	Grants to college libraries for loan of books to students (Book Banks).	1st	8,450
S.R. & .S. Patkar College, Bombay.	-do-	1st	8,450
Sir M.U. College of Science and Seth L.U. College of Arts, Bombay.	-do-	1st	8,450
Smt. Parvatibai Chowgule College, Goa.	-do-	1st	8,450
M.M. College of Arts & N.M. Institute of Science (Bhavan's College), Bombay.	-do-	1st	8,450
Maharashtra College of Arts and Science, Bombay.	-do-	1st	8,450
I.S.M. College, Alibagh - Distt. Kolaba.	-do-	1st	8,450
Fergusson College, Poona.	Students' Aid Fund in the Colleges - Grant for 1974-75		3,100
Shri Shahu Mandit Mahavidyalaya, Arts and College, Poona.	-do-		329
Kankarian Ruja College, Bombay.	-do-		5,000
The New Law College, Bombay.	-do-		1,600
Kirti M. Decagursce College, Bombay.	-do-		3,250
Smt. Mithaibai Motiram Kundanani College of Commerce and Economics, Bombay.	-do-		3,750
Victoria Jubilee Technical Institute, Matunga, Bombay.	-do-		983
Smt. Parvatibai Chowgule Cultural Foundations' College of Arts and Science, Margao, Goa.	-do-		3,475

Bombay University (Contd.)

Affiliated Colleges

Secondary Training College, Bombay.	Students' Aid Fund in the Colleges-Grant for 1974-75.		750
Chikitsak Samhita Sir Sitaram and Lady Shantabai Fatkar College of Arts and Science (Goregaon) West, Bombay.	-do-		1,600
R.P. Gogate College, Ratnagiri,	-do-		1,402
J.S.M. College, Aligabh, (Distt. Kolaba).	-do-		1,942
Bhiwandi Mizampur Nagarpalika College, (Arts, Science and College of Commerce), Bhiwandi.	-do-		2,250
Garmal College of Arts and Science for Women, Nuvem, Margoa. (Goa).	-do-		294
J.S.M. College of Arts, Science and College of Commerce, Aligabh. Distt. Kolaba.	-do-		7,500
Institute of Science, Bombay.	Grant for the purchase of laboratory equipment.	3rd & final	19,672
Ismail Yusuf College, Jagmannwari, Bombay.	-do-	2nd & final	13,000
Siddarth College of Commerce & Economics, Bombay.	Grants for Book Bank Scheme for 1974-75.	2nd & final	3,300
S.P.R. Mahavidyalaya, Sawantawadi. Ratnagiri.	Construction of Non-Resident Student Centre.	3th	4,000
Total:			6,05,925.00

14. Burdwan University

Junior Research Fellowship in Humanities & Social Science - Implementation of scheme during 1975-76.	1st	66,000
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Burdwan University (Contd.)

Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,00,000
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Affiliated Colleges

Banwari Lal Bhalatia College, Ainal.	Book grant to colleges 1970-71 release of grant.	final	1,625
Malana College, Malana.	Construction of Men's Hostel - Assistance towards	final	4,194
-do-	Construction of Science Laboratory Building - Assistance towards.	final	7,400
Bolpur College, Bolpur.	Construction of Library and Laboratory Building and purchase of Library and laboratory furniture.	4th	90,000
Katwa College, Katan.	Students' Welfare Programme	2nd & final	9,963.39
Sham Sunder College, Syamsundar, Buwana.	Students' Aid Fund in the colleges - sanction of grant for the year 1974-75.		1,750
Kalna College, P.O. Kalna, Distt. Burdwan.	-do-		3,750
Shri Ramakrishna Sarda Vidya Mahapitha, P.O. Kamarpukur, Distt. Hooghly,	-do-		1,200
Rampurhat College, P.O. Rampurhat, Distt. Burdwan.	-do-		2,401
Abhedananda Mahavidyalaya, Sainthia, Birham.	-do-		846
Sonamukhi College, Sonamukhi - Distt. Bankura.	-do-		1,750
Kalna College, Kalna (Burdwan).	-do-		3,750

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Total: 2,94,629.39

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F.T.O.

15. Calcutta University

Senior/Junior Research Fellowships in Sciences - Payment of fellowships and contingency grant.		2,600
-do-		1,042
Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,44,000
-do-	1st	2,17,000
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of fellowship and contingency grant.		2,425
-do-		2,880
Payment of grant towards the post of Development Officer - 4th Plan Scheme.	final	1,391
Financial Assistance to Teachers for research/learned work in Sciences - Payment of second instalment of grant.	2nd & final	750
-do-	2nd & final	250
National Associateship		900
Training under the Colombo Plan in the field of P.G. Course in Chemistry in Australia during 1974 - Dr. N.Saha.		102
National Associateship.		1,727
Purchase of and installation of an Electric Microscope for the Department of Pure Physics - Additional grant in 5th Plan.		75,000

Affiliated Colleges

Presidency College, Calcutta.	Senior/Junior Research Fellowships in Sciences Payment of contingency grant.		2,000
Shyampur Siddhashwari Mahavidyalaya, Howrah.	Financial assistance to teachers for research/ learned work in Sciences.	2nd & final	250
Rishi Monkin Chandra College, Kantapara Nathati.	-do-	2nd & final	250
Dum Dum Motijheel College, Calcutta.	-do-	2nd & final	250

Calcutta University (Contd.)

Affiliated Colleges

Bagnan College, P.O. Bagnan, Distt. Howrah.	Financial Assistance to Teachers for research/ learned work in Sciences and Humanities including Social Sciences - Payment of Second instalment of grant.	2nd & final	750
Hooghly Mohsin College, Chinnurah.	-do-	2nd & final	750
-do-	-do-	2nd & final	750
Prabhat Kumar College, P.O. Central Distt. Midnapore, Nabadwip Poyatyar College, Babaiwla.	Constuction of women's Hostel - Assistance towards. Grants to colleges for programmes of students welfare - 1970-72.	2nd	55,000
Purash Kanpur Haridas Nandi Mahavidyalaya, P.O. Kanpur, Distt. Howrah. Bathuse College, Calcutta.	Students Welfare Programme	2nd & final	2,500
Seth Anandram Jaipurin College, Calcutta.	Purchase of Books and Journals - Assistance towards. Extension of additional teaching accommodation.	2nd	10,000
Asutosh College, Calcutta-30.	Book grant to affiliated Government Colleges for the year 1972-73.	2nd & final	1,625
P.O. Nandigram, Sitahanda College, Distt. Midnapore.	-do-	2nd & final	1,375
Gokhale Memorial Girls' College, Calcutta-20.	-do-	2nd & final	1,375
Vidyanagar College, 39, Shankar Ghosh Lane, Calcutta-6.	College Science Improvement Programme - Selected Colleges Project - Grant- in-aid.	2nd	80,000
-do-	Grants to colleges libraries for loan of books to students (Book Banks).	2nd & final	4,438.2
Roursh Narsinha Dutt College, 129, Bellias Road, Howrah.	-do-	3rd & final	215

Calcutta University (Contd.)

Affiliated Colleges

Brahmananda Kashah Chandra College, Bon-Hooghly, 111/2, B.T. Road, Calcutta-35.	Grants to College Libraries for loan of books to students (Book Bank) during Fifth Plan.	1st	11,000
Bangabasi Morning College, Calcutta.	-do-	1st	14,000
K.D. College of Commerce, Midnapore.	-do-	1st	8,000
Maharani Kasiswari College, 20, Ram Kanta Bose Street, Calcutta.	-do-	1st	8,000
Lal Baba College, 117, G.T. Road, Belur (Howrah),	-do-	1st	8,000
Murlidhar girls' College, P-111/14, Garihah Road, Bullyganga, Calcutta.	-do-	2nd & final	4,942.
Womens College, 204/Bidhan Sarani, Calcutta-6.	Students' Aid Fund in the Colleges - Grant for 1974-75.		974
Rana Krishna Sarda Mission Vivekananda Vidya Bhavan, 33, Nayyapatti Road, Dum-Dum, Calcutta-55.	-do-		310
Jagesh Chandra Chaudhari College, 30, Prince Anwar Shah Road, Calcutta.	-do-		1,083
Surendra Nath College for Women, 24-2, Mahatma Gandhi Road, Calcutta-9.	-do-		1,575
Haram Sunchandra College, 23/49, Garihah Road, Calcutta-10.	-do-		1,428
Jhargram Raj College, P.G. Jhargram, Distt. Midnapore.	-do-		1,750

Calcutta University (Contd.)

Affiliated Colleges

College Name	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - Regarding.	
Ulberis College, Ulberia, Howrah.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - Regarding.	2,677
Raja Morenidralal Khan Womens College, P.O. & Distt. Midnapore.	-do-	1,000
Mahishandal Girls College, Mahishandal, Distt. Midnapore.	-do-	204
Yogada Satsanga Palpara Mahavidyalaya, P.O. Palpara, Distt. Midnapore.	-do-	750
Howrah Marsinha Dutt College, Howrah, Calcutta.	-do-	5,000
Shyam Sunder Siddheswari Maha- vidyalaya, P.O. Ajudhya, Howrah, Calcutta.	-do-	473
Scrampore College, Scrampore (Hooghly), Prabhat Women College, P.O. Contai, Distt. Midnapore.	-do-	5,000
Mulridhar Girls College, P-411/14, Garhat Road, Calcutta-29.	-do-	2,014
Union Christian Training College, Berhampore, Distt. Murshidabad.	-do-	525
Vidyasagar Evening College, 39, Sankar Ghosh Lane, Calcutta.	-do-	972.5
Hira Lal Mazumdar Memorial College for Women, Dakshineswar, Calcutta.	-do-	750
Nabadwip Vidyasagar College, Nabadwip.	-do-	1,306

F.T.O.

Calcutta University (Contd.)

Affiliated Colleges

Ban-Hooghly College of Commerce, 111/2, Barrackpore Truck Road, Ban-Hooghly, Calcutta-35.	Students' Aid Fund in the Colleges - Grant for the 1974-75.	320
Egra Sarada-Shashi Bhushan College, P.O. Egra-Distt. Midnapore.	-do-	784
Brahamanda Keshab Chandra College, Ben-Hooghly, Calcutta.	-do-	2,171
Esamahan College, 102/1, Raja Ram Mohan Swami, Calcutta.	-do-	1,981
Maulana Azad College, 8, Rafi Ahmed Kidwai Road, Calcutta.	-do-	1,322
Brahmananda Keshab Chandra College, Bon-Hooghly, Calcutta-35.	-do-	1,431
Shivanath Satri College, 23/49, Garibat Road, Calcutta-19.	-do-	701.50

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Total: 7,59,058.50

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16. Calicut University

Students' Aid Fund - 1974-75	4,505
UGC Assistance for the research project entitled "Theoretical investigation of Nuclear structure and experimental measurement of life times of Nuclear Excited States" submitted by Prof. J.C. Palathingal, Head of of the Physics Department - Approval and release of grant.	10,000



Calicut University (Contd.)

Workshop in drnithology from May, 1975 to 10th May, 1975.			8,275
Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st		12,000
Junior -do-	1st		18,000
Grant-in-aid for the development of Teacher Education - Payment of grant for Staff Salary.			16,000
Grant-in-aid for the development of Teacher Education - Payment of grant for purchase of Books and Journals.			4,000
Basic grant for the purchase of library books and journals during the Fifth Plan period for develop- ment of Engineering and Technology.			35,000
Visit of Mr. K.C. Vijayakumaran, Lecturer in Commerce to U.K.			10,737
Under the programme of exchange of visits by Younger Scientists between India and U.K. during the year 1974-75.			
-do-			10,331

Affiliated Colleges

Farrok College, Calicut.	Financial Assistance to Teachers for research/ learned work in sciences.	2nd & final	550
St. Thomas College, Trichur-1.	Financial Assistance to Teachers for research/ learned work in Sciences and Humanities and Social Social Sciences.	2nd & final	500
Shree Kerala Verma College, Trichur.	-do-	2nd & final	1,000
-do-	Development of Postgraduate studies in Humanities and Social Science - Financial assistance - Regarding.	2nd	8,200
Sir Syed College, Taliparamba.	Grants to Colleges for Laboratory Equipment.	2nd	3,822.2
M.E.S. Mampad College, Mampad, Malapuram Distt.	Grant towards the loan of books to students - setting up of Book Banks.	1st	5,000
Sir Syed Coll ge, Taliparamba.	-do-	1st	5,000

Calicut University (Contd.)

Affiliated Colloges

Farookh Training College, Calicut.	Development of teacher training programme in teachers training colleges - Purchase of books - regarding.		312.4
Guruvayarappan College, Calicut.	Students' Aid Fund in the Colleges-Grant for 1974-75		562
Government College Madappally, Badagara.	-do-		1,527
St. Joseph's College, Devagiri.	-do-		932
Medical College, Calicut.	-do-		174
Total:			1,56,427.4

17. Delhi University

Junior Research Fellowships in sciences/Humanities and Social sciences - Implementation of scheme during 1975-76.	1st	2,17,000
-do-	1st	1,44,000
Senior/Junior Research Fellowships in sciences - Payment of fellowship and contingency grant.		2,125
-do-		2,000
Senior/Junior Research Fellowships in sciences/Humanities including Social Sciences/Research Fellow- ships in Engineering and Technology - Payment of fellow- ship and contingency grant.		2,771
Senior/Junior Research Fellowships in sciences/Humanities including Social Sciences to the student belonging to Hill Area of North Eastern Region of India - Payment of fellowship and contingency grant to Miss Tiplut Mongbri.		2,764

Delhi University (Contd.)

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of fellowship and contingency grant.		2,600
-do-		2,061.29
-do-		2,807.77
-do-		2,996.77
-do-		3,002.53
-do-		2,600
-do-		1,493.46
-do-		3,074.19
Staff Salary in Diploma Course in Child Health and Anasathesis.	final	19,448.85
Additions and Alterations in the Old Law Faculty building to make it fit for housing the Department of Anthropology - Malargement of one room and a varandah.	final	4,097.77
Construction of Gandhi Bhawan.	final	6,310.14
Centre of Advanced Study in Sociology - Release of grants for the year 1974-75.		50,000
Additional requirements of the Department of Business Management and Industrial Administration - Purchase of Equipment and Teaching Aids.	final	5,000
Financial assistance to Mrs. D.S. Maidanova, Visiting Lecturer in Bulgarian Language in Department of Modern Language under Indo-Bulgarian Cultural Exchange Programme.		2,500
Organisation of short term workshop on instruction for the benefit of Teachers in Colleges and in the Department.		4,395
Payment of grant to Dr. G. Bethlenfalvy under Indo-Hungarian Cultural Exchange Programme 1973-75.		10,000
Payment of grant to Mr. E.V. Stoyanov, under Indo-Bulgarian Cultural Exchange Programme.		39.89
Expenditure on the revision of scale of pay of the laboratory staff with effect from 1.4.1968.	3rd final	3,340.08
Development of area studies programme relating to Pakistan in the Departments of Economics and Sociology - Purchase of furniture and equipment.		951.14

P.T.O.

Delhi University (Contd.)

Centre of Advanced Study in Chemistry - Release of recurring grant - Awards of National Scholarships during 1974-75.		6,000
Basic grant for the purchase of Library books and journals for postgraduate centre at Imphal during Vth Plan.	3rd	30,000
UGC Assistance for the research project entitled "Studies of the Ionosphere," - Submitted by Dr. C.S.G.K. Sotty, Professor of the Physics Department - Approval and release of grants.		50,000
Development of area studies programmes during V Plan period - Purchase of books and journals.		1,000

Affiliated Colleges

Indraprastha College for Women, Sham Nath Marg, Delhi.	Colleges affiliated to Delhi University - Establishment of students aid fund - Payment of grant for 1974-75.	3,750
Jesus and Mary College, Chanakaya Puri, New Delhi.	-do-	1,447
Hindu College, Delhi.	-do-	3,300
Lady Shri Ram College for Women, Lajpat Nagar, New Delhi.	-do-	3,250
Delhi College (Evening Classes), Ajmeri Gate, Delhi.	-do-	2,750
Gyan Devi Salwan College, Salwan School Marg, Rajinder Nagar, New Delhi.	-do-	952.
Delhi College (Day Classes), Ajmeri Gate, Delhi.	-do-	3,750
Institute of Home Economics, South Extension Part I, Ring Road, New Delhi.	-do-	1,000

Delhi University (Contd.)

Affiliated Colleges

Kalindi College, East Patel Nagar, New Delhi.	Colleges affiliated to Delhi University - Establishment of students Aid Fund - Payment of grant for 1974-75.	1,305
Kamla Nehru College, Panch Shila Park Marg, New Delhi.	-do-	2,975
Shyam Lal College, (Evening Classes), Shahdara, Delhi.	-do-	1,750
Gargi College, Lajpat Nagar, New Delhi.	-do-	1,283
Dashbandhu College (Evening), Kalkaji, New Delhi.	-do-	1,399
Delhi School of Social Work, 3, University Road, Delhi.	-do-	170
College of Vocational Studies, 7, Doctor's Lane, Gole Market, New Delhi.	-do-	1,500
Swami Shradhanand College, Alipur, Delhi.	-do-	2,921
S.G.T.B. Khalsa College (Evening Classes), Karol Bagh, New Delhi.	-do-	7,500
College of Vocational Studies 7, Doctor's Lane, Gole Market, New Delhi.	Grants to affiliated colleges of Delhi University for loan of books to students - Setting up Book Bank.	11,250
Daulat Ram College, Patel Marg, Delhi-7.	-do-	14,062
Maitreyi College, Nctaji Nagar, New Delhi.	-do-	11,250
Janki Devi Mahavidyalaya, Poorvi Marg, New Delhi.	-do-	14,062
Satyawati Coeducational College (Evening), Timarpur, Delhi.	-do-	11,250

P.T.O.

Delhi University (Contd.)

Affiliated Colleges

Vivekananda Mahila College, Gandhi Nagar, New Delhi.	Introduction of Hindi in B.A. (Hons.) and Maths. in B.A. (Pass) course w.e.f. 1972-73 - purchase of library books for the.		1,500
Miranda House, Delhi.	Purchase of furniture for the New Library.		39,000
Delhi College, Delhi.	Financial Assistance to Teachers for research/learned work in Sciences -	2nd & final	250
College of Vocational Studies, 7, Doctor's Lane, Golc Market, New Delhi.	-do-		18,000
Kalindi College, East Patel Nagar, New Delhi.	-do-		3,000
Shivaji College, Karampura, New Delhi.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences.	2nd & final	250
-do-	Construction of college building.		1,50,000
Delhi College (Day Classes), Ajmeri Gate, Delhi.	Purchase of equipment consequent upon the transfer of teaching of Botany and Zoology (Hons.) to the college w.e.f. 1973-74.		30,000
Kamla Nehru College, Panch Shila Park Marg, New Delhi.	Purchase of library books for geography introduced w.e.f. 1974-75.		2,500
Delhi College, (Day Classes), Ajmkeri Gate, Delhi.	Purchase of library books consequent upon the transfer of teaching of Botany and Zoology (Hons.) to the college w.e.f. 1973-74.		8,000
Intraprashta College for Women, Sham Nath Marg, New Delhi.	Repairs of tubewell.		3,50
Vivekananda Mahila College, Gandhi Nagar, Delhi.	Introduction of B.A. (Hons.) course in Sanskrit w.e.f. 1973-74 - Purchase of Library Books for the.		1,50

Delhi University (Contd.)

Affiliated Colleges

Daulat Ram College, Patel Marg, New Delhi.	Purchase of Equipment consequent upon the transfer of Botany and Zoology (Hons.) courses on a permanent basis to the college.	30,000
-do-	Purchase of library books consequent upon the transfer of Botany and Zoology (Hons.) Courses on a permanent basis to the College.	8,000
Institute of Home Economics, South Extension Part I, New Delhi.	Purchase of books for B.Sc. Home Science (Hons.) Course.	2,300
Kamla Nehru College, Panch Sheel Park Marg, New Delhi.	Purchase of Library Books for Sociology and Psychology Introduced w.e.f. 1972-73.	1,500
-do-	Purchase of equipment for Geography introduced w.e.f. 1974-75.	4,000
Bharati Mahila College, Link Road, New Delhi.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences - Payment of second instalment of grant.	250
Janki Devi Mahavidyalaya, Poorvi Nagar, New Delhi.	Purchase of furniture for the canteen under the Extended colleges scheme.	4,000
Kamala Nehru College, Panch Sheel Park Marg, New Delhi.	Purchase of water collers.	9,000
Bharati Mahila College, Jhandewalan Link Road, New Delhi.	Purchase of Library Books for B.A. (Pass) Panjabi and B.Com. (Pass) introduced w.e.f. 1973-74.	2,000
Institute of Home Economics, South Extension Part I, Ring Road, New Delhi.	Institute of Diploma Courses in Dietetics and Public Health Nutrition - Grant for books and equipment.	3,200

Delhi University (Contd.)

Affiliated Colleges

Lady Irwin College, Sikandara Road, New Delhi.	Writing of university level books/monographs.	1,100
Janki Mahila Mahavidyalaya, Toorvi Marg, New Delhi.	Purchase of furniture for the library under Extended Colleges Scheme.	10,000
Ram Lal Anand College (Day), Anand Niketan Marg, New Delhi.	Purchase of a Water Cooler	9,500
Lady Irwin College, Sikandara Road, New Delhi.	Payment of grant for the department of food and nutrition.	12,328.78
Deshbandhu College, Kalkaji, New Delhi.	Construction of Lecturers Rooms in the Science Block of the College.	15,000
Gargi College, Lajpat Nagar, New Delhi.	Construction of College, Building.	2,50,000
Lakshmi Bai College, Ashok Vihar, New Delhi.	Grant for the purchase of Library books for B.A. (Hons.) in Political Science introduced w.e.f. 1974-75.	2,500
Miranda House, Patel Chest Marg, Delhi.	Transfer of teaching of B.Sc. (Hons.) in Chemistry and Physics to Colleges - Non-recurring grant for equipment.	50,000
-do-	Extension of Science Block - Payment of grant.	123.
S.G.T.B. Khalsa College (Evening Classes), Karol Bagh, New Delhi.	Purchase of water cooler.	11,743
-do-	Purchase of library books	37,000
Total:		14,09,301.8

18. Cochin University

Grant for research 'Case studies in Industrial Relations'.	final	5,500
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F.T.O.



Cochin University (Contd.)

Writing of university level books/ monographs.		1,495.21
Publication Grant-Regarding. Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	2nd	4,000 8,000
Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	750
Total:		<hr/> 19,745.21 <hr/>

19. Dibrugarh University

Grant-in-aid for the purchase of books and journals during the 5th Plan period.		80,000
Junior Research Fellowships in sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.		51,000
Grant-in-aid towards the construction of Men Students hostel under the IVth Plan Scheme.		1,00,000

Affiliated Colleges

S.M.D. College, Charing, Assam.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - regarding.		734
J.B.S.G. College, P.O. Bokakhat.	-do-		750
D.H.S.K. Commerce College, P.O. Dibrugarh.	-do-		1,000
J.B. College, Jorhat.	Purchase of Laboratory Equipment - Release of final instalment.	3rd & final	23,600

Total: 

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2,57,174

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F.T.O.

20. Gauhati University

Grant-in-aid towards the construction 7th of Arts Block Building.		2,00,000
Junior Research Fellowships to the students belonging to Hill Areas of North Eastern Region of India - Payment of contingency grants to Travel grant in respect of Shri Chunag Aming Thanga under the scheme 'Award of scholarship for P.G. Studies to the students to Hill Areas of North Eastern Region of India.		1,000
Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	86,000
-do-	1st	41,000
Grant-in-aid towards the construction of Boy's Hostel - 4th Plan Scheme.	5th	25,000

Affiliated Colleges

Arya Vidyapeeth College, Gauhati.	Establishment of Health Centre - Release of final instalment of grant for building and equipment.	4th & final	13,312
Baljali College, Rathsala.	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	250
Pragjyotish College, Gauhati.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences -	2nd & final	500
Handique Girls College, Gauhati.	Grants to college for purchase of library equipment.	2nd & final	6,300
T.S. College, Mailakandi.	Grants to college libraries for loan of books to students - Book Bank.	2nd & final	3,250
Nalbari College, Nalbari.	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Shri T.N. Goswami, Retd. Principal.		3,000
Moirang College, P.O. Moirang, Manipur.	Construction of Additional Teaching Accommodation - Release of grant.	2nd	20,000

Gauhati University (Contd.)

Affiliated Colleges

Gauhati College, P.O. Barnunimaichan, Gauhati-21.	Book Grant 1970-71 - Release of final instal- ment of grant.	2nd & final	1,125
Arya Vidyapeeth College, Gauhati.	Students' Aid Fund in the Colleges - Sanction of grant for the year 1974-75 - Regarding.		2,690
Total:			4,06,686

21. Garhwal University

Affiliated Colleges

Government Degree College, Gopeshwar (Chamoli).	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,000
D.A.V. Postgraduate College, Dehradun.	-do-		4,190
Total:			5,190

22. Gorakhpur University

Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	750
Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	51,000
-do-	1st	34,000

Affiliated Colleges

National Degree College, Barhalganj.	Grant towards the loan of books to students - getting up of Book Banks.	1st	8,437
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Gorakhpur University (Contd.)

Affiliated Colleges

Ratan Sen Degree College, Bahsi.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,750
Harish Chandra P.G. College, Varanasi.	Grant towards the loan of books to students - Setting up of Book Banks.	1st	16,875
Satish Chandra College, Ballia.	-do-	1st	14,062
M.L.K. Degree College, Balrampur. (Gonda).	-do-	1st	14,062
K.B. Degree College, Mirzapur.	-do-	2nd & final	3,250
Ranvir Rananjaya Degree College, Amethi (Distt. Sultanpur).	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,512
Agrasen Mahila Mahavidyalaya, Azamgarh.	-do-		600
K.S. Saket Post-graduate College, Faizabad.	Improvement of Chalk-Boards	1st & final	1,000
M.S. -do-	Financial Assistance to Teachers for research/learned work in Sciences.	2nd & final	250
Swami Sahajanand Saraswati Vidyapith, Degree College, Ghazipary.	-do-	2nd & final	500
Satish Chandra College, Ballia.	-do-		750
B.N.K.B. Degree College, Akbarpur (Raizabad).	Construction of Library Building.	5th	16,000
Degree College, Pratapgarh.	-do-	5th	20,000
Buddha Degree College, Kushinagar, Deori.	Construction of Teachers' Hostel.	2nd	21,000

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Total: 2,05,798

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23. Gujarat University

Junior Research Fellowships in sciences/Humanities including Social Sciences - Implementation of scheme during 1975-76.	1st	66,000
-do-	1st	14,000
Basic grant for the purchase of library books during the V Plan.		1,89,000
Construction of Women's Hostel - Sanction of grant for.		1,75,000
Construction of Men's Hostel - Sanction of grant for.		75,000

Affiliated Colleges

Smt. H.C. Patel (Kandari) Arts & Commerce College, Miyagam - Karjan (Distt. Barodn), Sheth R.A. College of Science, Ahmedabad.	Financial assistance for purchase of chalk boards.	1st & final	2,500
Shri C.N. Patel Fartikuiwala Arts College & D.N. Science College, Dabhoi.	Development of play field and purchase of accessories for games and sports.	2nd & final	1,025
-do-	Construction of Teachers' Hostel.	2nd	55,000
-do-	Grant to colleges under student welfare programme.	2nd & final	4,000
Smt. H.C. Patel (Kandari) Arts and Commerce College, Miyagam - Karjan, Distt. Baroda.	Financial assistance to Teachers for research and learned work in Sciences and Humanities including Social Sciences.	2nd & final	750
Smt. H.C.J. College of Education, Combay (Distt. Kaira).	-do-	2nd & final	750
Shree Sarvajanik College of Education, Godhra (PMS) Gujarat.	-do-	2nd & final	500
Board Science & Law College, Borsad (Distt. Khira).	Construction of Non-resident Students Centre.	2nd	10,000
Navjivan Arts and Commerce College, Dahod.	Grants to College Libraries for loan of books to students (Book Banks).	1st	2,000

Gujarat University (Contd.)

Affiliated Colleges

Government Arts and Commerce College, Gandhi Nagar.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,254
Shri B.P.B. Arts and M.A.G. Commerce College, Unjha.	-do-		1,750
New Law College, Ahmedabad.	-do-	3,144	3,144
Patel J.B. Rudelwala Arts College & Patel A.M. Rudelwala College of Commerce, Borsad. (Distt. Kaira).	-do-		2,250
Gujarat Law Society Arts College, Ahmedabad.	-do-		1,750
Bhavan's Sheth R.A. College of Science, Ahmedabad.	-do-		3,151

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Total: 6,14,894

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24. Guru Nanak University

Junior Fellowships Research in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	12,000
-do-	1st	8,000
Establishment of Students Aid Fund in Universities - 1974-75.		2,000.
Basic grant for the purchase of Scientific Equipment during 5th plan period.		43,138.
Basic grant for purchase of library books and journals in Science & Humanities.		80,000

Affiliated Colleges

D.A.V. College, Jullundur City.	Students Aid Fund in the Colleges-Grant for 1974-75.	5,000.
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P.T.O.

Guru Nanak University (Contd.)

Affiliated Colleges

R.R. Bawa D.A.V. College for Girls, Batala.	Grants to colleges for Laboratory Equipment - Payment of final instalment of Rs.1,300.	2nd & final	1,300
D.A.V. College, Jullundur City.	Purchase of Science Equipment and Library Books.	7th & final	3,941
-do-	Utilisation of the services of the Retired Teachers - Payment of grant in respect of Shri A.C. Deveshwar: .....		978
Total:			<u>1,56,357.95</u>

25. Haryana Agricultural University

Writing of university level books/ monographs.		500	
-do-		926.92	
Total:			<u>1,426.92</u>

26. Himachal Pradesh University

Construction of Women's Hostel for 30 students.		1,50,000
Construction of 40 Staff Quarters of Lecturers.	7th	6,05,000
Allocation of Unassigned grant during V Plan Period.		12,500
Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	12,000
-do-	1st	8,000
Construction of Science Block (Physics & Chemistry).	7th	1,75,000

P.T.O.

Himachal Pradesh University (Contd.)

Affiliated Colleges

Government College, Solan.	Students' Aid Fund in the Colleges-Grant for 1974-75		1,386
St. Bose's College, Simla.	Development of play field and purchase of accessor- ics for games and sports.	2nd & final	1,500
Government College, Simla.	Purchase of Laboratory Furniture.	1st	10,000
-do-	Purchase of Semi-Micro - analysis apparatus.	1st	4,000
-do-	Purchase of Laboratory Equipment.	1st	25,000

Total: 10,04,386

... 27. Hyderabad University

Payment of grants to the University 1st 5,00,000  
- during 1975-76.

Total: 5,00,000

28. Indore University

Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	34,000
-do-	1st	51,000
Basic grant for the purchase of library books and journals during the 5th Five Year Plan Period (Science Department).		20,000.
-do-		20,000
-do-		20,000

Affiliated Colleges

Indore school of Social Work, 13-13, Old Sehore Road, Indore-	Implementation of NSS - in Colleges.	15,000
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P.T.O



Indore University (Contd.)

Affiliated Colleges

Holkar Science College, Indore.	Development of Postgraduate Studies in Science subjects during the IV Plan.	1st	50,000
Indore School of Social Work, 12-14 Old Shore Road, Indore.	Implementation of NSS in Colleges.		15,000
Government Arts and Commercial College, Indore.	Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of contingency grant to Shri B.K. Pal.		1,500
Shri Vaishnav College of Commerce, Indore.	Students' Aid Fund in the Colleges - Grant for 1974-75.		855
P.M.B. Gujarati Arts, Commerce & Law College, Indore.	-do-		5,000
Government New Girls Degree College, Indore.	-do-		952
P.M.B. Gujarati Science College, Sanyogitaganj, Indore.	-do-		2,750

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Total: 2,36,057

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29. Indira Kala Sangocet Vishwavidyalaya

Purchase of Books, Journals and Manuscripts.	final	5,000
Construction of Teachers Hostel.		50,000

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Total: 55,000

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P.T.O.

30. Jabalpur University

Allocation of unassigned grant during the year 1973-74 - Release of 2nd instalment.	2nd	10,000
Allocation of unassigned grant during the V Plan - Release of grant for.	1st	12,500
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	44,000
-do-	1st	66,000

Affiliated Colleges

Mahakoshal Arts Mahavidyalaya, Jabalpur.	Development of Postgraduate Studies in Humanities and Social Sciences subjects - Departments of Geography History and Urdu - sanction of grant for.	3rd	10,000
Government College of Education, Jabalpur.	Basic grants to colleges for purchase of library books - Sanction of grant for.	2nd & final	500
Witkarni Mahavidyalaya, Jabalpur.	Grants to College Libraries for loan of books to students (book banks).	1st	8,000

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Total: 1,51,000

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31. Jadavpur University

Ad hoc grant regarding the implementation of bilateral exchange programme between Jadavpur University and Technical University, BRMO under Item 2 of the Indo-Czechoslovak - Cultural Exchange Programme 1974-76.		20,000
Grant-in-aid for extension of High Tension Laboratory for Electrical Engineering Department - Fourth Five Year Plan.	3rd	5,000
Development of area studies programme during IV Plan Period - Purchase of books and journals South East Asia.		2,802.4

Jadavpur University (Contd.)

Grant-in-aid for the purchase of equipment for the Postgraduate Course in Pharmacy during the 4th Plan.		45,000
Writing of University Level books/monographs.		6,758.06
Grant-in-aid for the purchase of library books and journals - Additional grant in 4th Plan Scheme - To be met from 5th Plan Basic grant.	final	3,880.92
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences - Payment of fellowship and contingency grant.		2,867.74
Junior Research Fellowship in Sciences - Implementation of scheme during 1975-76.	1st	66,000
Senior/Junior Research Fellowships in Science/Humanities/Engineering and Technology - Extension in Fellowship tenure - payment of fellowship to Shri Ganya Priya Basu.		374.19
-do-		219.35
Junior Research Fellowships in Sciences - Payment of fellowship and contingency grant.		2,712.90
Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	44,000
Senior/Junior Research Fellowships in Science/Humanities/Engineering and Technology - Extension of Fellowship tenure - payment of fellowship to Shri D.K. Majumdar (302).		2,400
-do-		374.19
-do-		2,400
Senior/Junior Research Fellowships in Sciences - Payment of fellowship and contingency grant.		2,835.71
Financial assistance to teachers for research/learned work in Sciences and Humanities including Social Sciences.	2nd & final	600

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Total: 2,08,225.49

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32. Jammu University

Junior Research Fellowships in Sciences - Implementation of scheme during 1975-76.	1st	33,000
-do-	1st	22,000
Payment of Recurring grant for the staff appointment in various Science Departments during Fourth Plan Period.		1,37,959
<u>Affiliated Colleges</u>		
Government Degree College, Kathua.	Students' Aid Fund in the Colleges-Grant for 1974-75.	1,462
Government College of Education, Jammu.	-do-	297
	Total:	<u>1,94,712</u>

33. Jawaharlal Nehru University

Setting up of University's Centre of Postgraduate Studies at Impha.	4th	35,000
Basic grant for the purchase of scientific equipment during 5th Plan.	2nd	3,00,000
Junior Research Fellowship in Humanities including Social Sciences - Payment of fellowship to Shri Shamuddin.		945
Purchase of furniture/equipment for students' hostel, dining hall and common room in -		9,689
Purchase of office furniture and equipment at		2,65,000
Provision of air-conditioning lift, dumb waiter and Emergency generator for Computer Centre at -	1st	2,92,000
Purchase of equipment for establishment of a hostel for the students of J.L. Nehru University at New Campus.	1st	25,000
Writing of university level books/monographs.		306
Award of scholarship for the P.G. Students to the students belonging to Hill Areas of North Eastern Region of India during 1974-75 -		2,000
	Total:	<u>9,29,940</u>

34. Jawaharlal Nehru Technological University

Affiliated College

Regional Engineering College, Warangal.	Seminar on Development in Traffic and Transportation during 8th to 10th February, 1975.		5,205
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Total:	5,205
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35. Jiwaji University

Archaeological Excavation at Ayodhya.			20,000
Junior Research Fellowship in Sciences - Implementation of scheme during 1975-76.	1st		51,000
-do-	1st		34,000
Basic grant for the purchase of scientific equipment during the 5th Five Year Plan period.			1,00,000
Establishment of students aid fund in universities 1974-75 - Release of grant for.			458

Affiliated Colleges

Kamala Raja Girls' Degree College, Gwalior.	Book grant 1970-72.	2nd & final	2,124.25
Government College of Education, Gwalior.	Students' Aid Fund in the Colleges-Grant for 1974-75.		750
Dr. Bhagwat Sahai Samarak Mahavidyalaya, Gwalior.	-do-		729
Government College, Guna.	-do-		2,750
Ambah P.G.College, Ambah.	-do-		1,750
M.L.B. Arts and Commerce College, Gwalior.	Financial Assistance to Teachers for research/ learned work in Sciences and Humanities including Social Sciences.	2nd & final	375
Govt. Science College.	- do -	2nd & final	750

Total :	2,14,677.25
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36. University of Jodhpur

Financial Assistance to Teachers for research/learned work in Sciences	2 & final	750
- do -	-do-	750
Junior Research Fellowship in Sciences Implementation of scheme during 1975-76	Ist	51,000
- do -	Ist	34,000
Senior/Junior Research Fellowships in Humanities including Social Sciences		3,074-19
- do -		1,499-91
Research Fellowships in Engineering and Technology.		1,499-89
Allocation of Unassigned grant during the V Plan -Release of grant for.	2 & final	8,000-00
Expansion of M.B.M. Engg. College, Jodhpur -Const. of Buildings under increased intake scheme.	IIIrd Inst.	50,000-00
Grant in aid for the development of Post-graduate courses in Engineering & Technology at M.B.M. Engineering College, Jodhpur.		1,00,000-00
Award of P.G. Scholarships of the value of Rs.400/-p.m. to the I & II year students of 1974-75		90,000-00
<u>Affiliated Colleges</u>		
Lachoo Memorial College of Science, Jodhpur.	3rd & final	4,094-00
Total :		<u>3,44,667.99</u>

37. Kalyani University

Grant in aid towards the construction of Post-graduate Hostel for Men students (II & III Unit).	4th Inst.	20,000-00
Senior Research Fellowships in Sciences.		2,814-29
Total :		<u>22,814-29</u>

28. Kanpur University

Junior Research Fellowships in Sciences/  
Humanities and Social Sciences-Implementation  
of scheme during 1975-76. Ist Inst. 34,000

National Associateship. 63-29

Affiliated Colleges

P.P.N. College, Kanpur. College Sc.Improv-4th  
ment Programme. inst. 75,000-00

Christian Church College, Kanpur. Financial. 2nd &  
Assistance to final  
Teachers for Research work. 600-00

Nehru Mahavidyalaya, Lalitpur Const. of Ist Instl. 15,000-00  
over-head tank.

K.A. P.G. College, Allahabad. Assistance 2nd & final 750-00  
to teachers for res. work.

Gandhi Mahavidyalaya, Orai (U.P.). Students' Aid Fund. 850-00

Pt. Jawaharlal Nehru  
College, Banda (U.P.). Students' Aid Fund 3,250-00

D.N. Degree College,  
Fatehgarh (U.P.). - do - 1,750-00

Kulbhaskar Achram Degree  
College, Allahabad. - do - 1,750-00

G.S.V.M. Medical College  
Kanpur. - do - 886-00

B.N.V. Degree College,  
Rath (Dt. Raizirpur) - do - 1,000-00

Vallabharam Saligram Mehta  
College, Bharwari (Dt. Allahabad.) - do - 981-00

Cane Societies Nehru Degree  
College, Hardoi. - do - 3,750.00

Baiswara Degree College,  
Lalganj, Rae Bareli. - do - 864-00

Dayanand Girls College,  
Kanpur. - do - 2,750-00

D.V. College (Dayanand Vedic  
College), Orai. - do - 1,710-00

Gandhi Mahavidyalaya,  
Orai (U.P.). - do - 15,000-00

Total : 1,59,854.29

39. Karnatak University

Utilisation of Services of Outstanding Retired Teachers - Payment of .		3,000
Books and Journals for Post-graduate Centre.	Ist Inst.	25,000
Junior Research Fellowships in Humanities and Social Sciences.	1st Inst.	80,000

Affiliated Colleges

V.P. Samiti's C.S. Hembalagi Arts & Samiti's Sc. College, Ramdurg-Belgaum.	Student Aid Fund	700
Smt. Arts College for Women, Gandhinagar, Bellary-1.	-do-	400
K.L.E. Society's B.K. College of Arts & Sc. Chikool.	-do-	400
Shri Chennabasaveshwar Arts & Sc. College, Bhalki.	-do-	750
Raja Rakshmagounda Law College, Belgaum, Tilakwadi.	-do-	1,916
B.V.V. Sangh's Baraveshwar Commerce College, Bagalkot.	-do-	750
B.J.K.V. Women's College, Publi.	-do-	750
Govt. College, Gulbarga.	-do-	1,750
Adersh Shikshen Samiti's Commerce College, Gadag.	-do-	1,000
J.S.S. Arts College, Vidyagiri, Dharwar.	-do-	640
Lingraj College, Belgaum.	-do-	2,250
Sri Kadesidhhawar Arts College and H.S. Kotambri Sc. Institute, Publi.	-do-	2,250
Shri Shivayogi Murughendra Swamiji Arts & Sc. College, Athani.	-do-	338
B.V.B. College of Arts & Sc., Bidar.	-do-	1,456



Karnataka University (contd.)

S.S.L. Law College, Gulberga.	Students Aid Fund		742
Dr. A.V. Baliga College of Arts and Sc., Kumta.	-do-		1,000
G.I. Bagewadi Arts & Sc. College, Nipani.	-do-		612
J.G. College of Commerce, Bubli.	-do-		2,750
M.V. Petha's Mahantaswami Arts and Sc. College, Hannebhavi.	-do-		479
S.B. College of Science, Gulberga.	-do-		1,000
H.K.E. Society's Smt. V.G. Women's College, Gulberga.	Financial Assistance to Teachers for research/ learned work in Scs. & Humanities.		1,250
P.G. Jabin Sc. College, Vidyanagar.	Grant towards the loan of books to students. Ist Instl.		8,500
Vijayanagar College, Jospet.	- do - Ist Instl.		8,500
B.R.B. College of Commerce, Raicaur.	- do - Ist Instl.		8,500
S.B. College of Arts, Gulberga.	Construction of <u>Final</u> Library Building.		7,854
S.S.S. Samiti's College of Commerce, Bhaudur Gali, Belgaum.	Book Grant. <u>Final</u>		1,125
Veerashaiva College, Bellary.	Const. of Library Building. <u>Final</u>		10,429
Basaveshwar Arts College, Bagalket.	Book Banks. Ist Instl.		8,500
Veera Shaiva College, Bellary.	-do- Ist Instl.		11,250
			<hr/>
			1,95,891
			<hr/>

40. Kashmir University

Fellowship of Gulmarg Research Observatory 3,600

Junior Research Fellowships in Sciences. 1,500

Junior Research Fellowships in Humanities & Social Sciences. Ist Instal. 22,000

Affiliated Colleges

Govt. Degree College, Anantnag. Students Aid Fund 3,750

Govt. College for Women, Srinagar. -do- 3,750

Govt. College of Education, Srinagar. -do- 522

Govt. College, Baramulla. Book Banks Ist Instal. 8,437

Govt. College, Baramulla. -do- 2nd & final 3,250

Total : 46,809

41. Kashi Vidyapeeth

Basic grant for the purchase of library books & journals. 50,000

Junior Research Fellowship in Humanities and Social Sciences. Ist Instal. 37,000

Total 87,000

42. Kameshwara Singh Darbhanga Sanskrit University.

Basic grant for the purchase of Library Books and Journals. Ist Instal. 50,000

Junior Research Fellowship in Humanities and Social Sciences. Ist Instal. 20,000

Total: 70,000

43. Kerala University

Financial Assistance to Teachers for Research work in Sciences.	2nd & final	750
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences.		2,522-53
- do -		1,483-87
- do -		3,061-29
- do -		2,976-97
- do -		2,600
- do -		3,061-29
- do -		2,700
- do -		2,996-77
- do -		3,074-19
Basic grant for the purchase of Books & Journals.	2nd & final	4,00,000.00
Organisation of Summer Institute in English for College Teachers during 1975.		30,000
Induced Mutation Section in the department of Botany.	2nd Inst.	20,000

Affiliated Colleges

St. Albert's College, Ernakulam.	Book Banks	Ist Inst.	8,000
Morning Star Home Science College, Angamaly.	Women's Hostel-Assistance for.	4th & final	20,750
Sacred Heart College, Thevara, Cochin-13.	National Service Scheme.		15,000
Sree Narayana College for Women, Quilon-1.	Grants to colleges for Laboratory Equipments.	Final	9,250
Devaswom Board College, Sasthameettah.	Book Banks	Final	8,000

Kerala University(Contd.)

Affiliated Colleges

Assumption College, Changanacherry	Grant towards the loan of books to students - Setting up of Book Banks.	1st	11,250
Deva Matha College, Kuravilangad, F.O. Kottayam.	-do-	1st	8,000
St. Xavier's College for Women, Alwayc.	-do-	1st	8,000
Milad-E-Sherif Memorial College, Kayamkulam.	-do-	1st	8,000
Mahatma Gandhi College, Kosavadasapuram, Trivandrum-4.	Students' Aid Fund in the Colleges-Grant for 1975.		1,440
N.S.S. College, Shertallai, Alleppey Distt., Kochurampuram.	-do-		880
Sree Narayana College, Sivagiri, Varkala.	-do-	1st	8,000
N.S.S. College, Nilmel.	-do-		1,325
Government Victoria College, Palghat.	-do-		2,138
Milad-E-Sherief Memorial College, Kayamkulam.	-do-		1,541
Mar Athanasius College of Engin- eering, Kothamangalam.	-do-		850
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Total:			5,87,650.96
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44. Kurukshetra University

Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	34,000
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Kurukshetra University (Contd.)

Affiliated Colleges

Mukand Lal National College, Radaur.	Students' Aid Fund in the Colleges-Grant for 1974-75.		750
G.M. National College, Ambala Cantt.	-do-		2,250
Nehru College, Jhajjar(Rohtak).	-do-		1,750
Govt. College, Bhadurgarh.	-do-		355
Regional Engineering College, Kurukshetra.	-do-		2,750
Government College, Jind.	-do-		2,250
N.R.S. Government College, Rohtak.	-do-		1,680
Kishan Lal Public College, Rewari.	-do-		2,750
-do-	Construction of Science Laboratories.	final	3,600
F.C. College for Women, Hissar.	Construction of Women's Hostel.	final	8,570
Nehru College, Jhajjar (Distt. Rohtak).	Grant towards the loan of books to students -	1st	8,437
National College, Sirsa (Distt. Hissar).	Setting up of Book Banks.	1st	8,437
	-do-		
Total:			77,579

45. Kumaon University

Affiliated College

D.S.B. Government College, Nainital.	An International Symposium on Photochemical and Photo-physical Processes in Biological Systems to be held in April 1975 at the -		10,000
Total:			10,000

P.T.O.

46. Lucknow University

Senior/Junior Research Fellowships in Science/Humanities/Engineering and Technology - Extension in Fellowship tenure - payment of fellowship.		457.14
-do-		1,006.45
-do-		3,035.92
-do-		1,042
-do-		1,492.99
Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	1,00,000
University Grants Commission Assistance for the research for the research project entitled "An experimental and theoretical study of conformation conformational statistifs, and conformation transition in macromolecules with special emphasis on biopolymeric systems", submitted by Prof. V.D. Gupta, Department of Physics, Approval and release of grants.		5,500

Affiliated Colleges

D.G.N.V. Degree College, Lucknow.	Students' Aid Fund in the Colleges - Grant for 1974-75.	2,900
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Total: 1,15,434.00

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47. Lalit Narayan Mithla University

Affiliated Colleges

Maharani Rameshwari Mahila Maha- vidyalaya, Darbhanga.	Construction of Women's Hostel including furniture - Assistance for.	2nd	35,000
Samashray Babashwar College, Dalsinga- mari (Samastipur).	Students' Aid Fund in the Colleges-Grant for 1974-75.		502.5

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Total: 35,502.50

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Madras University

Grants for support of research in the universities- Fourth Five Year Plan - Payment of the final instalment of grant.	Final	3,922.17
Development Schemes under IV Plan Period.		14,000.00
-do-		37,835.00
Programme of British Assistance to Centres of Advanced Study - Visit of Professor C.V.Subramanian of Centre of Advanced Study in Botany to U.K.		10,600.00
Senior Research Fellowships in Science Payment of fellowship and contingency grant.		2,942.86
Development Schemes under IV Plan period - Assistant for...		15,000.00
Development Schemes under IV Plan Period.		56,000.00
Junior Research Fellowships in Humanities and Social Sciences implementation of scheme during 1975-76.		1,44,000.00
Development Schemes under IV Plan Period - Purchase of equipment for the Department of Psychology.		2,400.00
Development Schemes under IV Plan period - Assistance for.		20,000.00

Affiliated Colleges

Guru Nanak College, Madras.	Grant towards the loan of books to 1st students - setting up of book bank.	1st Instalment.	8,500.00
Stella Mari's College, Madras.	-do-	-do-	11,250.00
Madras Christian College, Tambaram, Madras.	-do-	-do-	14,000.00
Stella Maris College, Madras.	Financial assistance to teachers in the universities and colleges for undertaking research or learned work in Humanities including Social Sciences/Sciences - Payment of first instalment.	-do-	500.00
Nehru Memorial College, Puthanampatti (Tamil Nadu).	Construction of Men's Hostel.	5th	9,000.00
Sacred Heart College Tirupatti.	Students Aid Fund to colleges for the year 1974-75.		705.00
Govt. Arts College, Salon.	-do-		2,709.00

p.t.o.

Madras University Contd.

Khadir Mohideen College, Adirampattanam, Tharjavur Dist.	Students Aid Fund to Colleges for the year 1974-75.	940.00
Madras Medical College, Madras.	-do-	3,799.00
Regional Engineering College, Tiruchirapalli.	-do-	2,514.00
Sri Vasavi College, Nrodc.	-do-	1,050.00
A.V.V.Memorial Sri Pushpam College, Poona.	-do-	3,750.00
Govt. Arts College, Dharmapuri.	-do-	761.00
Madras Christian College, Tambaram.	-do-	1,728.00
The Women's Christian College, Madras.	Construction of Additional Teaching Accommodation - Assistance for.	5,775.00
Sri Avinashilingam Home Science College for Women, Coimbatore.	Extension of Laboratory Building.	2nd 15,000.00
P.S.G.Arts College, Coimbatore.	National Service Schemes - Final Implementation of - in universities.	1,407.85
National College, Tiruchirapalli.	Development of Post Graduate Studies in Science subjects.	Final 47,750.00
P.S.G.College of Tech- nology, Coimbatore.	Financial Assistance to Tea- chers for research/learned work in Sciences.	2nd & Final 250.00
Pachaiyappa's College, Madras.	Writing of University Level books/Monographs.	2,000.00
Madras Christian College, Tambaram, Madras.	Junior Research Fellowships in Sciences - Payment of Contingency grant.	1,000.00
P.S.G.College of Technology, Coimbatore.	Financial Assistance to Tea- chers for research/learned work in Sciences.	2nd & Final 500.00
P.S.G.Arts College of Coimbatore.	College Science Improvement Programme - Selected Colleges Project: Grant-in-aid.	Final 10,000.00

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 4,51,838.88
 

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19. ~~Madurai University:~~

Summer Institute in Molecular Genetics for college teachers during 1974 - Sanction -	3rd Instalment	22,595.10
College Science Improvement Programme - University Leadership project in Mathematics : Grant-in-aid.	7th	1,00,000.00
Junior Research Fellowships in Humanities and Social Sciences - Implementation of Scheme during 1975-76.	1st	44,000.00

Affiliated Colleges.

Virudhunagar Hindu College's Senthikumarasa Nadar College Virudhunagar. (Tamil Nadu).	Grant towards the loan of books to students setting up of book banks.	1st	14,00.00
St. Mary's College, Tuticorin. (Tamil Nadu)	-do-	1st	8,500.00
Lady Dean College, Madurai.	-do-	1st	8,500.00
Arulingan Palaniyanavar Arts College, Palni.	-do-	1st	8,500.00
Raja Doraisingam Memorial College, Sivaganga.	-do-	1st	8,500.00
Secot Christian College, Nagercoil, Kanya Kumar (Distt. South India).	-do-	1st	11,250.00
Holy Cross College, Roonnagar-Nagercoil (Tamil Nadu).	-do-	1st	8,500.00
Tirupeliveli Medical College, Tirupeliveli.	-do-	1st	8,500.00
Sri Meenakshi Govt. College for Women, Madurai.2.	-do-	1st	14,000.00
B.T.Hindu College, Nagercoil. (Kanyakumari)	-do-	1st	14,000.00
Dr. Zakir Hussain College, Ilaymgudi Tamil Nadu.	Students Aid Fund to colleges for the year 1974-75.		750.00
Lakshmapura College of Arts and Science, Neyyor (Kanya Kumari)	-do-		1,750.00
Holy Cross College, Nagercoil.2.	-do-		1,410.00

Madurai University Contd.

Thiagarajar College, Madurai.	Students Aid Fund to colleges for the year 1974-75.		1,824.00
Govt. Arts College, Melur. (Tamil Nadu)	-do-		750.00
Vivekananda College, Agasteeswaram, Kanyakumari.	-do-		1,750.00
Saurashtra College, Madurai.	-do-		750.00
Thiagarajar College of Engineering, Madurai. 15 (Tamil Nadu)	-do-		1,750.00
St. Xaviers College, Palayankottai, Tirunelveli.	-do-		1,107.00
S.T.Hindu College, Megercoil. Kanyakumari	Establishment of Book Bank during 1971-72.	2nd & final	5,500.00
	Writing of University Level Books/Monographs.		184.83
	Development Schemes under 4th Plan period - appointment of additional staff for science departments.		7,600.00
			2,95,970.99

50. Magadh University :

	Junior Research Fellowships in 1st Humanities and Social Sciences Implementation of scheme during 1975-76.		22,000.00
	<u>Affiliated Colleges</u>		
Sardar Vallabhbhai Patel College, Bhabua (Rontas) Bihar State.	Construction of Gymnasium	IVth & final	1,250.00
College of Commerce, Patna.	Grants to college Libraries for loan of books to stud- ents (Book-Bank) during Fifth Plan.	1st	14,000.00
M.B.R.R.V.Pd. Singh College, Arrah. (Bihar)	Students Aid Fund in the College - Sanction of grant for the year 1974-75.		2,750.00
Sardar Vallabhbhai Patel College, Bhabua. (Shahabad). College of Commerce, Patna.	S.U.F. Students' Aid Fund in the Colleges.		1,000.00
	-do-		3,750.00
		Total:	44,750.00

p.t.o.

Marathwada University:

Establishment of Health Centres	20,000.00
Junior Research Fellowships in Humanities and Social Sciences - Implementation of Scheme during 1975-76.	30,000.00

Affiliated Colleges:

Govt. College of Engg., Aurangabad.	Students Aid Fund in the Colleges Grant for 1974-75.	1,750.00
Rama Krishna Param-hansa Mahavidyalaya, Osmanabad.	-do-	1,644.00
Shri Mahatma Basवेश- war Mahavidyalaya, Latur. (Distt. Osmanabad).	-do-	1,678.00
Maulana Azad Educa- tion Society's Marathwada College of Education, Aurangabad.	-do-	144.00
Mahatma Gandhi Maha- vidyalaya, Ahmedpur. Osmanabad.	-do-	1,000.00
Dayanand Science College, Latur.	-do-	1,160.00
Govt. College of Engg., Aurangabad.	-do-	1,750.00
P.K.S. Dr. Ambedkar College of Law, Aurangabad.	-do-	1,750.00
J.E.S. Vaidyanath College, Parli Vaijanath. Dist. Bihar.	-do-	2,730.00
M.S.F. Mandal's Bel- bhim Arts, Science & Commerce College, Bhir.	-do-	2,750.00
Pratishthan Mahavidyalaya, Paithar, Dist. Aurangabad.	-do-	1,750.00
Govt. College of Education, Ambajagai. (Maharashtra)	-do-	337.00
Nutan Mahavidyalaya, Sailu (Distt. Parbhani)	-do-	1,000.00
Shri Shivaji College of Arts, Commerce & Science, Kandhar, Distt. Nanded.	-do-	707.00
Shri Shivaji College (Arts, Science and Commerce) Parbhani. (Maharashtra).	-do-	2,250.00
Peoples Education Societys' Dr. Baba Sahab Ambedkar College of Arts & Commerce Aurangabad.	Purchase of Class Chalkboards. Final	1,024.00

Marathwada University Contd.

Peoples Education Society's Dr. Baba Saheb Ambedkar College of Arts & Commerce, Aurangabad.	Book Grant - 1970-71	Final	1,375.00
Nanded Education Societies Peoples College, Nanded (Maharashtra)	Construction of Non-Resident's Students Centre.	2nd	20,000.00
Sri Saraswati Bhawan Education Societys' Arts & Commerce College, Aurangabad.	Construction of Ladies Hostel.	Final	18,385.00
The M.S.P.Mandal's Balkhim Arts, Science & Commerce College, Bhir (Maharashtra)	Grants to College Libraries for loan of Books to Students (Book Banks).		11,250.00
The M.S.P.Mandal's Shri Shivaji College of Arts Science & Commerce, Parbhani.	Grants to college libraries for loan of books to students (Book Banks).	Final	3,000.00
Mahatma Gandhi Mahavidyalaya, Ahmedpur. Dist. Osmanabad.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences.		375.00
		<b>Total:</b>	<b>1,27,807.00</b>

52. Meerut University:

Unassigned Grant for the year 1974-75 . Sanction of grant for Construction of Guest House.	2nd	10,000.00
Construction of Students Home		65,000.00
Junior Research Fellowships in Sciences. Payment of Contingency grant.		40,000.00
-do-		1,500.00
-do-		1,499.30
A Workshop on Planning for Effective Teaching.		1,500.00
Construction of Staff Quarters for Correspondence Course Teachers.		4,000.00
Symposium on Private Behaviour in Inter Disciplinary Approach.		1,90,000.00
Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.		2,540.00
Development of Teacher's Education in the University Organisation of Refresher Course during June 1972.		34,000.00
		2,934.00

p.t.o.

Meerut University Contd.

	Development of Teacher's Education in the University Organization of Refresher Course during June 1972 -	2,934.37
<u>Affiliated Colleges</u>	College Science Improvement Programme - Selected Colleges Project.	3rd 70,000.00
Maharaj Singh College, Saharanpur.	Grant-in-aid.	
Meerut College, Meerut.	Students Aid Fund in the Colleges Grant for 1974-75.	5,000.00
Rashtriya Kisan College, Shamli.	-do-	428.00
Digambar Degree College, Dibal.	-do-	247.00
S.M.J.N. Degree College, Hardwar.	-do-	1,000.00
Digambar Jain College, Baraut.	-do-	1,541.00
M.L.& J.N.Khemka Girls College, Saharanpur.	-do-	760.00
Multani Mal Modi College, Modinagar.	Construction of Laboratory Building and purchase of Library Books.	Final 4,986.00
Mihir Bhoj Degree College, Dadri.	Construction of Library Building	4th 15,000.00
S.S.V. College, Hapur.	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Dr.S.D. Kaushic.	4,000.00
Meerut College, Meerut.	-do-	
Janta Vedic College, Baraut.	Dr. K.C. Sharma.	4,000.00
Janta Vedic College, Baraut.	Construction of Non-Resident students' Centre.	4th 8,000.00
	Grants towards the load of books to students - Setting up of Book Banks:	14,062.00
Meerut College, Meerut.	-do-	1st 16,875.00
Shri Saraswati Vidyalaya College, Hapur. (UP).	Purchase of Laboratory Equipment	Final 4,000.00
Amar Singh College, Lakhaoti.	-do-	Final 1,250.44
Meerut College, Meerut.	Development of Postgraduate Studies in the Humanities and Social Sciences:	11,000.00
Durga Prasad Degree College, Anupshahr. (Bulandshahr). UP.	Grants to Colleges for Laboratory Equipment.	Final 4,000.00
Meerut College, Meerut.	Construction of Women's Hostel	2nd 60,000.00
R.M.F.V. College, Gurukul (Saharanpur)	Financial Assistance to teachers for research/learned work in Sciences.	2nd 1,000.00

Meerut University Contd.

N.R.E.C.College, Khurja.	Junior Research Fellowships in Humanities including Social Sciences - Payment of Contingency grant to Km. Shobha Singh.		1,500.00
N.A.S.College, Meerut.	Financial Assistance to Teachers for research/learned work in Sciences and Humanities including Social Sciences.	2nd	750.00
-do-	-do-	2nd	750.00
N.R.E.C.College, Khurja. (UP).	-do-	2nd	750.00
J.V.Jain College, Saharanpur.	-do-	2nd & Final	1,250.00
D.A.V.College, Bulandshahr. (UP).	Development of Postgraduate Studies in the Humanities and Social Sciences.	Final	500.00
K.V.Degree College, Machhra (Meerut.)	Purchase of Equipment and Books.	2nd	30,000.00
Vidyavati Mukand Lal Girls Degree College, Ghaziabad.	Construction of Psychology Laboratory.	4th	8,000.00
Sanatan Dharm College, Muzaffarnagar.	Development of Postgraduate Studies in the Science Subjects Physics & Chemistry.	Final	20,000.00
D.A.V.College, Muzaffarnagar.	-do-	Final	15,000.00
			6,71,357-15

M.S.University of Baroda:

Establishment of a Department of Continuing Education.		50,000.00
Establishment of Student Aid Fund in Universities 1974-75.		22,500.00
Implementation of N.E.S. Scheme in Universities.	Final	3,324.17
Implementation of National Service Schemes in Universities. Sanction grant 1974-75.		20,000.00
Writing of University level books/monographs.		1,000.00
Grant-in-aid for the P.G.Studies in Faculty of Engineering and Technology.		3,05,000.00
-do- Hydraulic Laboratory over head tank.		5,000.00
Development of the Five Year Degree course in Chemical Engineering - Purchase of equipment.		3,500.00

M.S.University of Baroda Contd.

Development of the Five Year Degree course in Chemical Engg., Equipment for Audio- Visual. Purchase of equipment for the establishment of the centre for 1st degree course in Pharmacy.	500.00
Junior Research Fellowships in Humanities and Social Sciences implementation of scheme during 1975-76.	1st 30,000.00
	1st 80,000.00

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5,20,824-17

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54. Mysore University:

Establishment of Examination Reform Unit.	10,000.00
Critical relation of Haridasa Sahitya.	25,000.00
Research Project "Dictionary of alsohara Sastri.	15,000.00
IV Plan Period - Development of Teachers Education - Salary of Staff.	35,000.00
Salary of Dean of Students Welfare and Communication Officers appointment under general schemes of IV Plan.	Final 402.73
U.G.C. Assistance for the research project entitled Basic Research on Liquid Crystals.	15,000.00
Construction of building for Commerce Department over the library building including Kannada department.	5,000.00
Construction of Men's P.G. students Hostel at Manasa Gangetri, Mysore.	5th 10,000.00
Construction of building under the scheme for the establishment of Students Home in the University Campus.	3rd 25,000.00
Junior Research Fellowships in Science/Humanities and Social Sciences.	2nd 90,000.00
Summer School in Applied Linguistics at the Central Institute of Indian Languages, Bhartiya Bhasha Sansthan, Mysore during 1975-76.	20,000.00

Mysore University Contd.

Affiliated colleges

St. Philowana college, Philonagar.	Students Aid Fund for the year 74-75	Rs. 1,750/-
Sri Venkataramana Swamy college, Rantval	-do-	Rs. 750/-
Sahyadri college, Shimoga	-do-	Rs. 1,403/-
St. Annts college of Educ- ation, Mangalore.	-do-	Rs. 750/-
Sree Siddaganga college of Arts, Science and Commerce, Tumkur.	-do-	Rs. 2,250/-
Meland college of Commerce, Engineering, Hassan	-do-	Rs. 570/-
B.D.T. college of Engineering Devengere	-do-	Rs. 745/-
A.V.K. college for Women, Hassan.	-do-	Rs. 1,000/-
Sri Poornaprajna Evening college, Udipi	-do-	Rs. 644/-
Sri Jagadguru Murugharajandra college of Arts, Science and commerce, Chitradurga.	Grants towards the loan of books to students - setting up of book banks.	Rs. 8,000/-
I.C.G. college, Chitanagular.	Grants towards the loan of books to students - setting up of book banks.	Ist Instalment Rs. 8,000/-
Govt. college, Mangalore.	-do-	-do- Rs. 8,000/-
National college of education, Mysore	-do-	-do- Rs. 8,000/-
Manipal Institute of Technology, Manipal	-do-	-do- Rs. 11,250/-
Mahatma Gandhi Memorial college, Udipi	-do-	-do- Rs. 8,000/-
Siddaganga Institute of Technology, Tumkur	-do-	-do- Rs. 8,000/-



Mysore University Contd.

Affiliated colleges

J.S.S. college of Arts, Commerce and Science, Mysore.	Construction of Library Building, Class room and Lecture Theatres.	2nd instalment	Rs. 1,00,000/-
Govt. college, Kolar.	Construction of Library Building and Lecture Theatres.	-do-	Rs. 1,00,000/-
The Govt. college, Mandya	Grants to college Libraries for loan of Books to students during the Fourth Plan	Final	Rs. 1,182/-
Yuvaraja's college Mysore.	Purchase of furniture for the laboratory block.	Final	Rs. 6,365/-
St. Agnes college, Mangalore.	Construction of Teaching Accommodation	3rd	Rs. 20,000/-
St. Ann's college of Education, Mangalore.	Development of Teachers Training Programme in Teachers Training colleges.	Final	Rs. 8,000/-

Total:

Rs. 5,55,067.29

55. NAGPUR UNIVERSITY

Junior Research fellowship in Science/ Humanities and Social Sciences - Implementation of scheme during 1975-76	Ist	Rs. 67,000/-
Regional Summer Institute in Political Science held during 1974.	Final	Rs. 6,000/-
Grant-in-aid for the P.G. courses at the Laxmi Narayan Instt. of Technology	-	Rs. 70,000/-
Recurring expenditure in respect of Under-graduate courses at the Laxmi Narayan Instt. of Gechnology - Payment of grant.		Rs. 9,270/-

NAGPUR UNIVERSITY CONTD.

Recurring expenditure in respect of under-graduate courses at the Laxmi-Narayan Instt. of Technology Payment of grant.	-	Rs.	10,000/-
Financial assistance to teachers for research/learned work in Sciences	2nd	Rs.	250/-
Financial assistance to teachers for research work in Sciences and Humanities including Social Sciences	2nd	Rs.	1,000/-
Construction of Gyanasium	3rd	Rs.	25,000/-
Social Sciences/Research fellowships in Engineering and Technology - Payment of fellowship and Contingency grant.	-	Rs.	2,014.29

AFFILIATED COLLEGES

Jijamata Mahavidyalaya, Buldana	Students Aid Fund in the colleges - Grant for 74-75	-	Rs.	1,750/-
Shri Shivaji Science and Arts college, Chikhli.	Grants to college Libraries Ist for loan of Books to students (Book-Banks)		Rs.	7,500/-
Yeshwant Mahavidyalaya Nanded	Students Aid Fund in the colleges - Grant for 74-75	-	Rs.	3,250/-
Rajasthan Aryan Arts & M.K. Comm. Mahavidyalaya, Washim.	Development of play field and purchase of accessories for games & sports.	Final	Rs.	1,734/-
Anand Niketan college of Science, Arts and commerce, Warora.	Construction of N.R.S.C.	Final	Rs.	9,659/-
G.S. college of Commerce and Economics Nagpur.	Grants to colleges Lib. for loan of books to students (Book-Banks)	Ist	Rs.	14,000/-
			Total:	2,48,427.29

56. NORTH BENGAL UNIVERSITY

Junior Research fellowships  
in Humanities and Social  
Sciences - Implementation  
of Scheme during 1975-76

Ist Rs. 22,000/-

Payment of grant towards  
the salary of staff  
appointed in Science  
Department under the 4th  
plan Development Schemes.

- Rs. 82,415.77

AFFILIATED COLLEGES

Bidhanchandra college Students Aid Fund -  
Asansol Sanction of grant for  
the year 1974-75

- Rs. 2,644/-

Anandpur Chandra  
college of Commerce,  
Jalpaguri.

-do-

- 1,604/-

Alipurduar college,  
Alipurduar

-do-

- 2,786/-

Chanchal college,  
Chanchal

-do-

- 750/-

Total: Rs. 1,12,199.77

North Eastern Hill University

Payment of Grant to the  
North Eastern Hill University.

5th Rs. 5,00,000/-

Payment of grant for the  
year 1975-76

Ist Rs. 10,09,000/-

AFFILIATED COLLEGES

Sankardev college,  
Shillong

Students Aid Fund for  
the year 1974-75.

- Rs. 750/-

St. Mary's college,  
Shillong

Grant to college for  
Laboratory equipment.

final Rs. 1,300/-

Total: Rs. 15,11,050

58. OSMANIA UNIVERSITY

Grants-in-aid for the establishment of Computer Centre-Staff and Maintenance Adhoc grant.		Rs.	25,000/-
Utilisation of Services of Retired Teachers - Payment of honorarium - Payment in respect of extension cases 1974-75	-	Rs.	3,000/-
Financial assistance to Teachers for research/learned work in Sciences	2nd	Rs.	500/-
Centre of Advanced Study in Astronomy (Release of recurring grant in respect of Senior/Junior Research fellowships and National Scholarships during 74-75	-	Rs.	26,000/-
Basic grant for purchase of Books and Journals for the development of Engineering and Technology during the fifth Five year plan.	Ist	Rs.	50,000/-
U.G.C. assistance for the research project entitled Studies on the protective role of antibodies against <i>Entamoeba histolytica</i> infection in albinorats as well as on the effects of gamma radiation on cultural, morphological and pathogenicity of <i>E. Histolytica</i> and <i>E. Hartmannistrains</i> - Submitted by Dr. (Mrs.) M. C. Padma, Reader Deptt. of Genetic,	-	Rs.	20,000/-
Junior Research fellowship in Humanities and Social Sciences Implementation of Scheme during 1975-76.	Ist	Rs.	90,000/-
Construction of building for P.G. courses in Electrical Engineering.	2nd	Rs.	2,127.70
<u>AFFILIATED COLLEGES</u>			
New Science college, Establishment of Health Hyderabad.	.	Rs.	5,000/-

Osmania University contd.

Affiliated colleges

Arts and Science college, Const. of Lib. Bldg.		Rs.	20,000/-
Basu Memorial Arts and Sc. college, Jyothat.	Purchase of equipment	and	Rs. 5,000/-
-do-	Const. of Lab. Bldg.	2nd	Rs. 30,000/-
Nehru Memorial Arts and Sc. college, Jogipet	Development of play fields of accessories.	1st	Rs. 5,000/-
New Science college, Narayanguda	Grants towards the loan of books to students -Setting of Book Banks.	1st	Rs. 8,000/-
Badruka college of commerce and arts Kachiguda	-do-	1st	Rs. 11,000/-
Evening college, New Wallopally.	-do-	1st	Rs. 8,000/-
A.V. college of Arts and commerce (Evening session) Ganga Mahal	-do-	1st	Rs. 21,000/-
Chanda Kanthiah Memorial Arts & Science college, Warangal	-do-	1st	Rs. 14,000/-
Badruka college of Commerce & Arts (Evening) Kachaniguda	-do-	1st	Rs. 8,000/-
St. Francis college for Women, Secunderabad	-do-	1st	Rs. 8,000/-
Vivek Vardhini Even. college of Arts, Gowliguda	-do-	1st	Rs. 8,000/-
College of Arts & Sc. Kamaroddy.	Students Aid Fund 1974=75	-	Rs. 1,750/-
Sardar Patel college, Secunderabad	-do-	-	Rs. 1,366/-
Urdu Arts (Evening) college, Himayatnagar	-do-	-	Rs. 750/-

OSMANIA UNIVERSITY CONT.

AFFILIATED COLLEGES

College of Arts and Science, Warangal	Students Aid Fund for 1975	-	Rs. 1,040/-
Kakatiya Medical college, Warangal	-do-	-	Rs. 1,153/-
Gvt. college, Jagtial	Financial assistance to teachers for research work in Sciences	Final	Rs. 500/-
Vivak Vardhini college, Hyderabad	Const. of Lab. and Lib. Building.	Final	Rs. 15,000/-
Total:			<u>Rs. 3,787.183-70</u>

59. ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY

Students Aid Fund 1974-75	-	Rs. 4,132/-
Utilisation of services of Outstanding Retired Teachers	-	Rs. 3,000/-
Total:		<u>Rs. 7,132/-</u>

60. PANJAB UNIVERSITY

Unassigned grant for 74-75	Rs. 10,000/-
Assistance to Universities towards field training in Geology during the Fifth five year plan.	Rs. 2,700/-
IV plan Development Scheme Award of Research Scholarship at V.I.S.I.S. Hoshiarpur	Rs. 2,097.75
Junior Research fellowship in Sciences.	Rs. 2,000/-
National fellowship Scheme Prof. R.P. Ramhan.	Rs. 15,500/-
Indo-Hungarian Seminar on Analytical Chemistry to held during Dec. 1974-Jan. 1975 at Chandigarh under Indo-Hungarian Cultural Exchange Programme 1974-75	Rs. 375/-
Basic grant for purchase of equipment for Humanities and Science Deptt. during Vth Five year Plan.	Rs. 2,000/-

PANJAB UNIVERSITY CONTD.

Development of Business Management Deptt. Recurring grant. Rs. 50,000/-

Junior Research fellowship in Humanities and Social Sciences - Implementation of Scheme during 1975-76. Ist Rs. 1,24,000/-

Senior Research fellowship in Sciences. Rs. 2,921.43

AFFILIATED COLLEGES:

R.S.D. college, Students Aid Fund for 74-75 Rs. 2,750/-  
Ferozepore City.

S.G.G.S. Khalsa -do- Rs- 1,750/-  
college, Mahilpur

Govt. college of -do- Rs. 1,000/-  
Home Science,  
Chandigarh.

Christian Medical -do- Rs. 1,000/-  
college, Ludhiana

Babbar Akali Memorial Khalsa college, Construction of cycle shed 2nd Rs. 9,813/-  
Garhshankar

Lajpat Rai Memorial Construction of Five Final Rs. 7,186.78  
college, Jagraon Class room.

Govt. college, Grants towards the loan Ist Rs. 8,437/-  
Muktsar of books to students -  
Setting of Book Banks

A.S. college, Const. of Non-Residential Final Rs. 5,000/-  
Khanna Students Centre.

Govt. college, Const. of N.R.S.C. Ist Rs. 50,000/-  
Ludhiana

Govt. college of Const. of Women's Hostel 4th Rs. 20,000/-  
Home Science,  
Chandigarh.

Total Rs. 3,18,530.96

61. PANJAB AGRICULTURAL UNIVERSITY

Affiliated college

College of Veterinary Medicine, Ludhiana	Financial assistance to research/learned work in Sciences.	2nd	Rs.	1,000
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			Rs.	1,000
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62. PANJABI UNIVERSITY

Unassigned Grant for the Vth Plan Period. 74-75.	-	Rs.	2,500
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Junior Research fellowship 1st in Humanities and Social Sciences - 1975-76		Rs.	34,000
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AFFILIATED COLLEGES

Govt. Medical college, Patiala	Students Aid Fund in the colleges - Grant for 74-75	-	Rs.	2,250
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Govt. Ranbir college, Sangrur	-do-	-	Rs.	2,250
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Govt. college, Ropar	-do-	-	Rs.	1,446
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Govt. college for Women, Patiala	Grant towards the loan of Books to students - Setting up of Book Banks.	1st	Rs.	20,000
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Govt. Brijindra college, Faridkot.	-do-	1st	Rs.	8,437
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Total:		Rs.	50,000
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63. PATNA UNIVERSITY

Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Prof. Debidas Chatterjee Deptt. of English.	-	Rs.	4,000
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Research fellowships in Engineering & Technology	-	Rs.	1,500
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Payment of grant towards field work for the Deptt. of Psychology under the 4th plan Development Schemes.	-	Rs.	3,391-59
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Research fellowship in Engineering & Technology	-	Rs.	1,500
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PATNA UNIVERSITY CONTD.

Organisation of the Crash Programme in Intensive Teaching of the use of Scientific English.	-	Rs. 1,885.80
Junior Research Fellowship in Humanities and Social Sciences Implementation of Scheme during 1975-76.	1st	Rs. 80,000-00
Payment of grant towards the salary of Development Officer under the IVth Plan Development Schemes.	-	Rs. 4,988-08

AFFILIATED COLLEGES

Patna Training college, Patna	Financial assistance to teachers for research/learned work in Sciences and Humanities including Social Sciences	2nd	Rs. 750-00
Patna college, Patna.	Research fellowship in Sc. Humanities including Social Sciences	-	Rs. 1,333-00
-do-	-do-	-	Rs. 1,000-00
-do-	Financial assistance to teachers for research work & learned work in Sciences	2nd & Final	Rs. 500-00
Total:			1,00,728-42

POONA UNIVERSITY

Research fellowship in Sc.	-	Rs. 2,857-14
Extension of Smt. S. Bhatta-Charya's fellowship.	-	Rs. 1,251-61
Sanction of grant towards the staff appointed in Humanities and Social Sciences under the 4th Plan Development Schemes.	-	Rs. 287-55
Research fellowship in Science	-	Rs. 2,522.58

POONA UNIVERSITY CONTD.

Research fellowships in - Rs. 4,635-48  
Sciences/Humanities including  
Social Sciences to the students  
belonging to Hill Areas of  
North Eastern Region of India.

Visit of Dr. M.L.K. Murty, - Rs. 8,825-00  
Deptt. of Archaeology, Deccan  
college Post-graduate Research  
Institute to U.K. under the  
programme of exchange of visits  
by Younger Scientists between  
India and U.K. during the  
year 1974-75

Junior Research Fellowship in - Rs. 80,000-00  
Humanities and Social Sciences  
Implementation of Scheme during  
1975-76.

Research fellowships in Humanities - Rs. 2,329-03  
including Social Sciences Payment  
of fellowship and contingency grant.

Programme of Special assistance - Rs. 3,864-52  
to Selected Departments -Deptt.-  
of Mathematics & Statistics.

Grant for travel expenses - Rs. 661-00  
and research field work to  
Sh. Sangchia under the scheme  
'Award of Scholarship to the  
students belonging to Hill  
areas of North Eastern Region  
of India - 1973-74.

AFFILIATED COLLEGES

Gokhale Institute of Politics and Economics, Poona Writing of University level books/monographs. - Rs. 1,000-00

S.S.V.P.S. Arts & M.F.M.A. Commerce college, Dhilla. Setting of Career advising Units in colleges - Payment of Adhoc-grant. - Rs. 500-00

POONA UNIVERSITY CONTD.

AFFILIATED COLLEGES

M.J. College of Arts and Science, Jalgaon.	Setting up of Career Advising Units in colleges - Payment of Adhoc Grant.	-	Rs.	500-00
Pomraj Sarda college, Ahmednagar,	Students Aid Fund in the colleges - Grant for 74-75	-	Rs.	1,622-00
K.J. Somaiya college of Arts & Commerce, Kopergaon.	-do-	-	Rs.	730-00
Nowrosjee Wadia college, Poona.	-do-	-	Rs.	5,000-00
Armed Forces Medical college, Poona.	-do-	-	Rs.	1,750-00
V.S.V.P. Sansthas Arts and M.P.M.A. commerce college, Dhulia	-do-	-	Rs.	3,750-00
Janta Mahavidyalaya, Arts & Commerce, Pathardi	-do-	-	Rs.	432-00
College of Agriculture, Dhulia.	-do-	-	Rs.	347-00
Ahmednagar college, Ahmednagar.	-do-	-	Rs.	3,779-00
Adarsha Comprehensive college of Education and Research Brandavana, Karve Road, Poona.	-do-	-	Rs.	1,000-00
College of Education, Dhulia.	-do-	-	Rs.	332-00
RNC Arts, JBB Commerce and NBÇ Science college, Nasik Road.	-do-	-	Rs.	1,400-00

POONA UNIVERSITY CONTD.

AFFILIATED COLLEGES

College of Education, Jalgaon.	Students Aid Fund in the colleges - Grant for 74-75	Rs. 243-00
Daccan college of Postgraduate & Research Institute, Poona.	Financial assistance to teachers in the universities and colleges for undertaking research or learned work in Humanities including Social- Sciences.	Rs. 2,250-00
K.C.V.'s college of Education, Nasik.	Grant to colleges under Students Welfare Programme.	Final Rs. 1,250-00
S.P.D.M. Arts S.B.B. and S.H.D- commerce and S.M.A. Science college, Shirpur.	Grants to college Libraries for loan of Books to Students (Book-Banks)	Ist Rs. 6,000-00
S.P. college, Poona	Research fellowships in Humanities including Social Sciences - Payment of fellowship and Contingency grant to Mrs. V.S. Godse.	Rs. 2,919-35
Ahmednagar college, Ahmednagar.	Implementation of N.S.S. Scheme in colleges for the year 1974-75.	Ist Rs. 13,000-00
Gokhale Institute of Politics and Economics, Poona.	Writing of University level books/monographs.	Rs. 1,500-00
	Total:	Rs. 1,56,548.26

65. RABINDRA BHARATI UNIVERSITY

	Grant-in-aid towards the establishment of students- aid-fund 1974-75.	Rs. 4,500-00
	Junior Research fellowship in Humanities & Social Sciences Implementation of scheme during 1975-76.	Ist Rs. 40,000-00 <u>Rs. 44,500-00</u>

6. RAJASTHAN UNIVERSITY

Junior Research fellowship  
in Humanities & Social  
Sciences - Implementation  
of Scheme during 1975-76. Ist Rs. 1,24,000-00  
Instal-  
ment

Writing of University  
level books/monographs. - Rs. 177-35

Junior Research fellowship  
in Sciences - Implementation  
of Scheme during 1975-76 Ist Rs. 1,50,000-00

Proposal to organise a  
symposium on Recent advances  
in Pre-Cambrian Geology with  
special reference to Rajasthan - Rs. 12,558-00

Writing of University level  
books/monographs. - Rs. 1,988-95

Organisation of Summer  
Institute in English for  
college Teachers during 1975 - Rs. 30,000-00

College Science Improvement  
Programme - University leadership  
project in Physics. - Rs. 60,000-00

Junior Research fellowships in  
Humanities including Social  
Sciences - Payment of contingency  
grant to Sri B.K. Joshi. - Rs. 3,208-00

Organisation of an all  
Rajasthan Sociological  
Conferences at Devnagri  
college, Ajmer. - Rs. 2,000-00

Financial assistance to  
Teachers for research/learned  
work in Sciences. Final Rs. 250-00

Financial assistance to  
Teachers for research/learned  
work in Sciences. Ist Rs. 500-00

RAJASTHAN UNIVERSITY CONDT.

AFFILIATED COLLEGES

S.M.B. Govt. college, Nathelwara.	Financial assistance to Teachers for research/ learned work in Sciences	Final	Rs.	250-00
Rajasthan college, Rajasthan.	-do-	Final	Rs.	500-00
Jiabal Institute of Education, Ajmer.	Financial assistance to Teachers for research/ learned work in Sciences and Humanities including Social Sciences -	2nd	Rs.	250-00
Jawaharlal Nehru Teachers Training college, Kota.	-do-	Final	Rs.	1,500-00
Bangur college, Didwana.	Grants to college Lib. for loan of books to students (Book-Banks)	Ist	Rs.	6,000-00
Govt. college, Banswara.	-do-	Ist	Rs.	6,000-00
Jialal Institute of Education, Ajmer.	Grant to colleges under Students Welfare Programme	Final	Rs.	2,500-00
Raj Rishi college, Alwar.	-do-	Final	Rs.	6,000-00
Maharaja Sanskrit college, Jaipur.	Utilisation of Services of Outstanding Retired Teachers - Dr. G.N. Sharma	•	Rs.	4,000-00
Malaviya Regional Engg. college, Jaipur.	Writing of University level/ Books/Monographs.	-	Rs.	2,000-00
Raj Rishi college, Alwar.	Students Aid Fund in the colleges - Grant for 74.75	-	Rs.	5,000-00
Malaviya Regional Engg. college, Jaipur.	Writing of University level books/monograph.	-	Rs.	1,794-77
Total			Rs.	4,56,477.

Junior Research fellowship - Rs. 30,000-00  
in Humanities and Social  
Sciences - Implementation  
of Scheme during 1975-76.

Publication of research FinalRs. 6,069-75  
work including Doctoral  
Theses.

Grant-in-aid for the - Rs. 1,50,000-00  
purchase of Scientific  
equipment during the 5th  
Plan Period.

Financial assistance to and Rs. 2,250-00  
Teachers for research/  
learned work in Sciences  
and Humanities including  
Social Sciences.

Financial assistance to FinalRs. 250-00  
teachers for research/  
learned work in Sciences.

AFFILIATED COLLEGES

Tata college, Grants to college Librarians Ist Rs. 2,000-00  
Chaibasa. for loan of books to students  
(Book-Bank) during 5th plan.

Doranda college, Development of play field FinalRs. 1,500-00  
Ranchi. and purchase of accessories  
for games and sports.

Birsa college, Establishment of Text FinalRs. 2,000-00  
Khunti. Book Library.

Marwari college, Construction of teaching FinalRs. 51,441-00  
Ranchi. accommodation.

Total: Rs. 2,51,510-75

68. RAVISHANKAR UNIVERSITY

Junior Research fellowship in Humanities and Social Sciences - Implementation of Scheme during 1975-76.	-	Rs. 34,000-00
		<u>Rs. 34,000-00</u>

69. ROOARKH UNIVERSITY

Implomentation of programme - Rs. 17,360-00  
of Cooperation between India  
and USSR in the field of  
applied Science & Technology

Establishment of computer - Rs. 10,000-00  
Training Centre in the  
Electronics and Communication  
Engg. Deptt.

Construction of building for 3rd Rs. 25,000-00  
computer Training Centre in  
the Electronics & Communication  
Engg.

Research fellowship in Science  
Humanities including Social - Rs. 1,332.55  
Sciences/Research fellowship  
in Engineering.

Visit of Dr. C.L. Sharma, - Rs. 8,287-00  
Lecturer in Chemistry to U.K.  
under the programme of  
Exchange of visits by Younger  
Scientists between India  
and U.K. during 1973-74.

Financial assistance to  
Teachers for research/ - Rs. 500-00  
learned work in Sciences

Establishment of computer  
Training centre-Payment 3rd Rs. 5,000-00  
of grant for books &  
Journals.

Establishment of Health - Rs. 25,000-00  
Centre - Purchase of  
Equipment.



BOONKEE UNIVERSITY CONTD.

Development of post-graduate courses in Engineering and Technology  
Payment of equipment grant. 4th Rs. 10,000-00

Under-graduate course in Chemical Engineering - IV plan equipment grant. Final Rs. 5,000-00

Tower for propagation studies in Electronics & Communication Engineering Engineering & Technical Education Development Schemes during the IV plan period. Final Rs. 15,000-00

Development of Post-graduate courses in Engineering and Technology - Payment of equipment grant for. Final Rs. 5,000-00

Under-graduate course in Metallurgical Engineering in IV Plan - Equipment grant. 6th Rs. 5,000-00

Visit of Dr. Chandar Mohan - Reader in Mathematics to U.K. under the Programme of exchange of visits by Younger Scientists between India & U.K. during the year 1973-74 Rs. 7,170-00

Unassigned grant for 74-75 - Rs. 18,500-00

Development of Post-graduate course in Engineering and Technology - Payment of equipment grant for. Final Rs. 1,667-00

Development of Post-graduate courses in Engineering & Technology Payment of equipment grant for. IIIrd Rs. 20,000-00

ROORKEE UNIVERSITY CONTD.

Implementation of the Programme of cooperation between India and U.S.S.R. in the field of applied Science and Technology - Payment of grant for.	-	Rs.	15,279-00
Development of Engineering and Technical Education during IVth Plan period Providing cycle sheds in hostels.	2nd	Rs.	3,000-00
Introduction of Post-graduate course in Chemical Engg. IV Plan - Equipment grant.	12th	Rs.	5,000-00
Introduction of Post-graduate courses in Mechanical Engg. Constd. of Hydraulic Turbine Room.	2nd	Rs.	6,000-00
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76	1st	Rs.	22,000-00
			<hr/>
			Rs. 2,20,595-55

70. SAMBAJPUR UNIVERSITY

Junior Research fellowship in Humanities and Social Sciences - Implementation of Scheme during 1975-76	1st	Rs.	8,000-00
National Associationship	-	Rs.	803-85
Financial assistance to Teachers for research/learned work in Sciences	2nd	Rs.	500-00
Grant in aid for the purchase of Scientific equipment during the 5th plan period.	-	Rs.	1,50,000-00

SAMBALPUR UNIVERSITY CONDT.

AFFILIATED COLLEGES.

University college of Engineering, Burla	Students Aid Fund in the colleges - Sanction of grant for the year 1974-75	Rs.	697-00
Sundargarh college, Sundargarh.	-do-	Rs.	802-00
Govt. Training college, Bolangir.	-do-	Rs.	600-00
Lajpat Rai Law college, Sambalpur	-do-	Rs.	2,250-00
Gangadhar Mehar college, Sambalpur	Development of play field & purchase of accessories.	Final Rs.	1,382-00
			Rs. 1,64,034.85
T otal:			

71. SAMPURNAN AND SANSKRIT VISHWAVIDYALAYA?

Award of scholarships for Post-graduate studies to the students belonging to the Hill Areas of North Eastern Region of India.	-	Rs.	2,000/-
Senior Research fellowship in Science/Humanities/Engineering and Technology Extension in Fellowship tenure.	-	Rs.	3,600-00
Purchase of Library Books and Journals during 5th Plan period .	-	Rs.	9,719-60
Research fellowships in Sciences - Payment of fellowship and contingency grant.	-	Rs.	2,900-00
Research fellowship in Humanities and Social-Sciences during 75-76	Ist	Rs.	40,000-00
T otal:			Rs. 58,219.60

72. Sardar Patel University

Junior Research Fellowship in Sciences/Humanities & Social Sciences - Allocation of funds for implementation of the scheme during 1974-75.	3rd	13,000
Junior Research Fellowship in Humanities and Social Sciences - Implication of scheme during 1975-76.	1st	4,000
All India Summer Institute in Chemical Spectroscopy for College Teachers during 1974 - Sanction of 2nd instalment of grant.	2nd	2,240.71
All India Symposia on "Form Structure in plants".		10,580.25
Visits of Dr. G.C. Desai, Lecturer in Physics, to U.K. under the Programme of Exchange of visits by younger scientists between India and U.K. during 1974-75.		9,753
Visit of Dr. A.S. Patel, Reader in Economics, to U.K. under the programme of exchange of visits by Younger Scientists between India and U.K. during 1974-75.		9,753
Basic grant for the purchase of scientific equipment during the 5th Five Year Plan Period.		50,000
National Associateship.		2,000
A seminar on functional analysis.		4,215

Affiliated Colleges

H.M. Patel / Institute of English, Vallabh Vidyanagar.	Development of teachers training programmes in teachers training colleges - purchase of books and journals.	final	2,000
T.V. Patel Arts College, Vallabh Vidyanagar (Kaira).	Students Aid Fund in the Colleges-Grant for 1975.		792
-do-	Construction of Non-Resident Students Centre.	3rd & final	7,000
Rajratna P.T. Patel Science College, Vallabh Vidyanagar, Distt. Kaira.	Construction of Teachers' Hostel.	2nd	50,000

Sardar Patel University (Contd.)

Affiliated Colleges

Bhikhabhai Jivabhai Vanijya Mahavidya- laya, (Commerce College), Vallabh Vidyanagar, Distt. Kaira.	Construction of Library Building.	final	13,095
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Total:	2,18,428-96
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73. Saugar University

Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellow- ships in Engineering and Technology - payment of contingency grant.		999.78
-do-		998.31
Junior Research Fellowship in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	80,000
Award of Junior Fellowship to M. Pharm. students admitted during 1973-74.		9,000
Senior/Junior Research Fellowships in Sciences/Humanities including Social Sciences/Research Fellow- ships in Engineering & Technology - Payment of fellowship and contingency grant.		2,792.81
National Associateships.		1,000
Visit of Dr. D.P. Gupta, Assistant Professor of Zoology to U.K. under the Programme of Exchange of Visits by Younger Scientists between India and U.K. during 1973-75.		370

Affiliated Colleges

Government Degree College, Bina.	Grants to college libraries 1st for loan of books to students (Book Banks).	6,000
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Saugar University (Contd.)

Affiliated Colleges

Government College, Seoni.	Book grant 1970-72.	2nd & final	1,375
Govt. Postgraduate College, Chhindwara.	Financial Assistance to Teachers for research/ learned work in Sciences.	2nd & final	250
Government Narmada College, Gachrawara.	Students' Aid Fund in the colleges-Grant for 1974-75.		357

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Total: 1,03,143-01

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Saurashtra University

Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	12,000
Establishment of Students Aid Fund in Universities 1974-75 - Release of grant for.		10,052

Affiliated Colleges

D.K.V. Arts and Science College, Jamnagar.	Students' Aid Fund in the Colleges-Grant for 1974-75.		2,000
Shri F.D.M. College of Commerce, Rajkot.	-do-		2,142
R.G. Teachers College, Porbandar.	-do-		119
U.M. Arts and Commerce College, Upleta (Rajkot).	-do-		1,750
Kamani Science College and P. Arts College, Amroli.	-do-		2,029
H. & M.S. Kotak Institute of Science, Rajkot.	-do-		926
Ramldad Arts College, Bhavnagar.	Basic grant to colleges for purchase of library books - Sanction of grants for.	2nd & final	500

Saurashtra University (Contd.)

Affiliated Colleges

R.G. Teachers' College, Porbandar.	Development of teachers training programmes in teachers training colleges.	80,000
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Total: 1,11,518

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75. Shivaji University

Junior Research Fellowships in Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	34,000
Placement of Russian Language Teacher under the Indo-U.S.S.R. Cultural Exchange Programme.		3,644.
Establishment of Study Centre at Sholapur.		5,000
Basic grant for the purchase of scientific Equipment during the Vth Five Year Plan Period.		5,000
Establishment of Main Health Centre IVth Plan Scheme - Sanction of recurring grant.		12,000
Grant-in-aid towards the Construction of Women's Hostel for 50 students.		50,000

Affiliated Colleges

D.G.B. Dayanand Evening Law College, Sholapur.	Book grant to affiliated colleges for the year 1970-71.	2nd & final	1,125
Science College, Satara.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,000
Barsi College, Barsi.	Construction of Women's Hostel.	3rd	25,000

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Total: 1,36,769

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76. South Gujarat University

Junior Research Fellowships in Sciences/Humanities and Social Sciences - Implementation of scheme during 1975-76.	1st	8,000
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P.T.O.

South Gujarat University (Contd.)

Junior Research Fellowships in Science/Humanities and Social Sciences - Allocation of funds for implementation of the scheme during 1974-75.	3rd	3,000
-do-	3rd	3,000
Construction of a building for part-time P.G. Diploma course in Management Studies.	5th	30,000
<u>Affiliated Colleges</u>		
Maganlal Thakordas Balmukunddas, Arts College, Athva College, Surat.	Assistance for the construction of additional teaching accommodation.	2nd & final 45,566
S.C.D.B. College of Commerce, Station Road, Surat.	Students' Aid Fund in the Colleges-Grant for 1974-75.	700
S.B. Garda College (Arts) & P.K. Patel College of Commerce, Navsari.	-do-	2,150
Sir K.P. College of Commerce, Surat.	-do-	2,000
S.V. Regional College of Engineering and Technology, Surat.	UGC Assistance for the research project entitled "Optics and Magneto-optics - of dispersed metal" submitted by Dr. H.S. Shah, Head of the Department of Physics, Approval and release of grants.	30,000
Navyog Science College, Rander Road, Surat.	3rd Annual Conference of the Gujarat Statistical Association.	2,000

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Total: 1,26,416

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77. Sri Venkateswara University

Junior Research Fellowships in Sciences/Humanities and Social Sciences. Implementation of scheme.	1st	67,000
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Sri Venkateswara University contd.

Basic grant for the purchase of Library books and Journals Science & Humanities Departments during the 5th Five Year Plan Period.		Rs.	1,50,000
Research Fellowship in Sciences Humanities including Social Sc. Research Fellowships in Engineering & Technology. Payment of Contingency grant.		Rs.	1,390.16
Starting of Part-time B.E. Degree Ist Course for Diploma Holders at Sri Venkateswara University.		Rs.	35,000.00
Research Fellowships in Sciences Payment of fellowship and contingency grant.		Rs.	2,857.14
Sri Venkateswara University college of Engineering = Development of U.G. Courses in Engg. & Tech.	-	Rs.	17,500-00

AFFILIATED COLLEGES

S.V. Arts college, Tirupati.	Students Aid Fund in the colleges - Grant for 1975	-	Rs.	1,560
D.K. Govt. college for Women, Nallore.	Grant towards the loan of Books to students - Setting up of Book Banks.	Ist	Rs.	8,000
Sri Padmavathi Women's college, Tirupati.	-do-	Ist	Rs.	8,000
Jawahar Bharati, Kavali	-do-	Ist	Rs.	8,000
Govt. college, Anapatpur	-do-	-do-	Rs.	14,000
S.C.H.R. Govt. college, Proddatur	-do-	Final	Rs.	3,250
Sri Venkatesanarayan Swamy college, Bantwal	Purchase of Furniture for library block.	Ist	Rs.	7,000

SRI VENKATESWARA UNIVERSITY CONTD.

AFFILIATED COLLEGES

Government college, Anantapur.	Laboratory equipment	Final Rs.	2,500
Venkateswara college, Tripuri	Purchase of library books & Journals.	Final Rs.	40,000
Govt. college, Chittoor.	Financial assistance to teachers/learned work in Sciences.	Final Rs.	250
Jawahar Bharati, Kavali	Establishment of Health Centre - Salaries of Staff	IIIrd Rs.	1,702
-do-	College Science Improvement Programme - Selected college project.	Fifth Rs.	30,000
-do-	Financial assistance to teachers for research work/ learned work in Sciences and Humanities including Social- Sciences	IIInd Rs.	750
-do-	Establishment of Health Centre.	-	Rs. 12,000
			<u>Rs. 4,10,74</u>

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

Grant-in-aid towards the Construction of Women's Hostel at Poona.	-	Rs. 2,00,00
Establishment of a Deptt. of Continuing education.	-	Rs. 20,00
Junior Research fellowship in Humanities & Social Sciences	3rd	Rs. 9,00
-do-	Ist	Rs. 30,00
Grant-in-aid for the construction of Composite Building.	-	Rs. 7,15,00
Basic grant for the purchase of Scientific equipment during the 5th Five Year Plan.	Final	Rs. 50,00

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

AFFILIATED COLLEGES

Smt. Maniben M.P. Shah Grants to college library Final Rs. 3,250  
 Women's college of Arts for loan of books to students  
 Bombay ( Book-Banks)

-do- -do- Ist Rs. 8,000

-do- Students Aid Fund in the colleges - Grant for 1974-75 - Rs. 512

Smt. P.N. Doshi Women's college, Ghatkopar, -do- - Rs. 1,750

Rs. 10,87,512

'9. UDAIPUR UNIVERSITY

Research fellowship in Humanities including Social Sciences. - Rs. 2,953-06

Establishment of Study Centre - Rs. 9,231

Junior Research fellowship in Humanities and Social Sciences - Implementation of Scheme during 1975-76 Ist Rs. 30,000

Junior Research fellowship in Humanities including Social Sciences Payment of fellowship and contingency grant to Shri S.L. Sharma. Rs. 2,953-06

Publication of the report of the study on Agricultural Planning and the role of Co-operatives - A study of H.Y.V.P. in Rajasthan. Final Rs. 500

Rs. 45,642-12

80. UTKAL UNIVERSITY

Junior Research fellowship in Humanities and Social Sciences - Implementation of scheme during 75-76 Ist Rs. 44,000

Utkal University (Contd.)

Senior/Junior Research Fellowships in Sciences - Payment of Contingency grant.			1,500
Basic grant for the purchase of library books and journals during Fifth Plan period.	final		1,00,000
Unassigned grant during the Fifth Five Year Plan.			10,000
Grant-in-aid towards the construction of 5th Block Revised 'C' type quarters.			10,000
Establishment of students aid fund for 1974-75.			1,472
<u>Affiliated Colleges</u>			
Government Training College, Amaul.	Students' Aid Fund in the Colleges-Grant for 1974-75.		645
Angul College, Angul	-do-		1,000
S.V.M. College, Jagat Singh Pur, Distt. Cuttack.	-do-		1,000
Radhanath Training College, Cuttack.	-do-		750
Nazi Jagathandhi Didyadhar College, Bhubaneswar.	Grant in aid for the purchase of library books.		1,250
Udala College, Udala (Distt. Mayurbang).	Grant-in-aid towards the purchase of library books.		1,125
Anandpur College, Anandpur, Distt. Meoujhar.	-do-	2nd & final	2,000
Radhanath Training College, Cuttack.	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Professor S. Nath.		4,000
Ravenshaw College, Cuttack.	Financial Assistance to Teachers for research/learned work in Sciences	2nd & final	375
-do-	Utilisation of Services of Outstanding Retired Teachers - Payment of grant in respect of Dr. K.R. Das, Department of Oriya.		4,000
Government Evening College, Puri.	Grants to Colleges Libraries for loan of books to students (Book Bank) during Fifth Plan.	1st	8,000

Utkal University (Contd.)

Affiliated Colleges

Udala College, Udala, (Distt. Mayurbanj).	Grant-in-aid towards the purchase of library books.	2nd & final	750
-do-	Students Welfare Programme	2nd & final	1,000
Total:			<u>1,92,867</u>

81. Vikram University

Senior/Junior Research Fellowships in Science/Humanities/Engineering and Technology - Extension in Fellowship tenure - Payment of fellowship.			1,419.35
Organisation of Summer Institute in English for College Teachers during 1975 - Sanction of an 'on addout' grant.			30,000
Grant for the purchase of books and furniture for students Home.			10,000

Affiliated Colleges

Government J.N. Degree College, Berwaha.	Financial Assistance to Teachers for research/ learned work in Sciences and Humanities including Social Sciences.	2nd & final	1,000
Government College Mandsaur.	Construction of teaching accommodation and laboratories.	2nd	30,000
Government College Diar.	Students' Aid Fund in the Colleges-Grant for 1974-75.		1,564

Total: 73,983-35

VISVA BHARATI UNIVERSITY

Senior Research fellowship in Sciences - Payment of fellowship and contingency grant.	-	Rs.	2,921-43
Junior Research fellowship in Sciences/Humanities and Social Sciences - Implementation of Scheme during 1975-76.	Ist	Rs.	30,000
Research fellowships in Humanities including Social Sciences - Payment of fellowship and contingency grant.		Rs.	2,921-43
Senior Research fellowships in Sciences - Payment of fellowship and contingency grant.	-	Rs.	2,771-43
Construction of Gymnasium	Final	Rs.	2,769
Financial assistance to teachers learned work in Sciences and Humanities including Social Sciences.	Final	Rs.	1,000
Utilisation of Services of Retired Teachers.	-	Rs.	4,000
			Total: Rs. 46,383-29

83. DEEMED TO BE UNIVERSITIES.

BIRLA INSTITUTE OF TECH. & SCIENCE.

Research scholarships for P.G. students in Engineering & Technology admitted during the session.	-	Rs.	1,25,000
Senior Research fellowship in Sciences.	-	Rs.	2,835-31
Payment of recurring grant for the development of P.G. courses in Engineering and Technology.	-	Rs.	1,50,000
Purchase of Air Conditioner and Refregarator.	-	Rs.	15,560
Recurring grant for the award of Junior fellowship to students in Engineering and Technology admitted during 1974-75.	2nd	Rs.	18,000

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE CONTD.

Recurring grant for the award of Junior Fellowship to students in Engineering and Technology admitted during 1974-75.	2nd	Rs.	18,000
Financial assistance to teachers for research/learned work in Sciences.	Final	Rs.	750
Establishment of students Aid Fund in Universities 1974-75		Rs.	4,120
Post-graduate course in Pharmacy Equipment grant.	2nd	Rs.	25,000
Grant-in-aid for the development of Post-graduate course in Engineering & Technology.	5th	Rs.	30,000
	Total:		<u>Rs. 3,89,325.31</u>

84. CENTRAL INSTITUTE OF ENGLISH

Setting up of a cell for the organisation of Summer Institute in English.		Rs.	34,116
Holding of Pre-Institute Meeting of the Directors of Summer Institute in English - 1975 on 3rd & 4th March 1975.		Rs.	94-50
Setting up of a cell for the organisation of Summer Institute in English-Appointment of Mr. R.K. Tongue as Reader under Aid Commonwealth English Scheme.		Rs.	15,000
Writing of university level books/monographs.		Rs.	1,435-48
	Total:		<u>Rs. 50,615-98</u>

85. GUJARAT VIDYAPITH

Establishment of students Aid Fund in University 1974-75.		Rs.	1,193
Unassigned grant for 1974-75	Final	Rs.	10,000
Junior Research fellowship in Science Subjects.	Ist	Rs.	37,000
Basic grant for library books and journals.	-	Rs.	25,000
		Rs.	<u>73,193</u>

36. GURUKUL KANGRI VISHWAVIDYALAYA

Junior Research fellowship in Humanities including Social Sciences.		Rs.	2,867-74
Junior Research fellowship in Humanities and Social Sciences	Ist	Rs.	18,000
Implementation of Scheme during 1975-76.	Total;	Rs.	<u>20,867-74</u>

87. INDIAN INSTITUTE OF SCIENCE

Indigenous manufacture of Scientific equipment - Creation of a Cell - VTVM Kits Sanction of the Commission.	-	Rs.	45,000
School of automation procurement of Hybrid computer System.		Rs.	20,00,000
Visit of Dr. K.P. Gopinathan, Microbiology and Pharmacology Laboratory to U.K. under the programme of exchange of visits by Younger scientists between India & U.K. during 1973-74.	-	Rs.	8,893
Junior Research fellowship in Sciences - Payment of Contingency grant.	-	Rs.	1,038-15
-do-	-	Rs.	1,480-10
-do-	-	Rs.	1,500
	Total:	Rs.	<u>20,57,861-25</u>

88. INDIAN AGRIL. RES. INSTITUTE

Visit of Dr. S.K. Banerjee Seed Testing Officer, Division of Seed Technology to U.K. under the programme of exchange of visits by younger scientists between India and U.K. during 1973-74.		Rs.	7,818
	Total:	Rs.	<u>7,818</u>

89. INDIAN SCHOOL OF MINES

Basic grant for the purchase of library books and journals during the Fifth Plan period for development of Engineering and Technology.	Ist	Rs.	50,000
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INDIAN SCHOOL OF MINES CONTD.

Assistance to Universities towards field training work in Geology during the Fifth Five Year Plan. Rs. 3,000

Payment of Recurring grant for the staff and maintenance. Rs. 50,000

Establishment of students Aid Fund ~~Rs. 300~~  
Total: Rs. 1,03,300

90. JAMIA MILLIA ISLAMIA

Establishment of Students Aid Fund in Universities - Payment of grant for 1974-75. . . . . Rs. 2,000

Junior Research fellowship in Humanities and Social Sciences Ist Rs. 13,000  
Implementation of scheme during 1975-76.

Research Project-A field study 2nd Rs. 5,000  
of Muslim Women in six cities of Western U.P., Delhi and Kashmir

Unassigned grant for the year 74-75 Final Rs. 15,000  
Total: Rs. 40,000

91. TATA INSTITUTE OF SOCIAL SCIENCES

Programme in connection with the Celebration of 2500th Nirvan Mahotsav of Bhagwan Mahavir. " Rs. 1,500

Junior Research fellowship in Humanities and Social Sciences Ist Rs. 30,000  
Implementation of scheme during 1975-76.

Unit for the study of Urban child and youth. " Rs. 75,000

Rs. 1,06,500

Total Plan

2,93,23,437.62

NON PLAN

1. ALIGANJ MUSLIM UNIVERSITY

Maintenance grant for 1975-76 Ist Rs. 23,42,750  
instalment

Revision of Dearness allowance with effect from Ist June, Ist July and Ist September, 1974. Payment of grant for meeting the additional expenditure on the. - Rs. 14,72,012  
£ Total: Rs. 40,15,762

2. BANARAS HINDU UNIVERSITY

Maintenance grant for 75-76 Ist Rs. 33,93,750

Revision of Dearness allowance with effect from Ist June, Ist July, Ist September, 1974 - Payment of grant for meeting the additional expenditure on the. Rs. 17,18,052  
Total: Rs. 56,11,802

3. DELHI UNIVERSITY

Maintenance grant for 1975-76 Ist Rs. 19,68,750

Revision of Dearness allowance with effect from Ist June, Ist July and Ist September - Payment of grant for meeting additional expenditure on the. Rs. 10,44,000

Revision of Scales of Pay of Non-Academic Staff, Rates of Dearness allowance, Compensatory (City) allowance and House Rent Allowance, consequent upon the decisions of the Gov.t of India, on the recommendations of the Third Pay Commission. Rs. 34,37,800

Revision of scale of pay of academic staff (teachers) with effect from 1.1.1973 - Payment of grant for meeting the expenditure on the. Rs. 20,00,000

DELHI UNIVERSITY CONTD.

CONSTITUENT COLLEGES

Ramlal Anand college (Evening classes), Anand Niketan Marg, New Delhi.	Additional expenditure on account of revision of scales of pay of the teaching staff.	Rs. 54,000
Lady Shri Ram college, for Women, Lajpat Nagar, New Delhi.	-do-	Rs. 1,71,000
Deshbandhu college (Evening classes) Kalkaji, New Delhi.	-do-	Rs. 1,67,000
Deshbandhu college, (Day classes) Kalkaji, New Delhi.	-do-	Rs. 2,78,000
Hastinapur college, (Evening classes) Moti Bagh, New Delhi.	-do-	Rs. 1,65,000
Kirori Mal college, Patel Marg, Delhi.	-do-	Rs. 2,20,000
Vivekanand Mahila college, Gandhi Nagar, Delhi.	-do-	Rs. 1,41,000
Hastinapur college (Day) Moti bagh, New Delhi.	-do-	Rs. 1,83,000
Central Institute of Economics, Delhi.	-do-	Rs. 40,000
Shivaji college, New Delhi.	-do-	Rs. 2,86,000
Gyan Devi Salwan college, New Delhi.	-do-	Rs. 41,300
Shyam Lal college, (Evening classes) Shahdara, Delhi.	-do-	Rs. 30,000

Delhi University (Contd.)

Affiliated Colleges

Shri Ram College of Commerce, Patel Marg, Delhi.	Additional expenditure on account of increased rates of Dearness Allowance to teaching and non-teaching staff during 1974-75 - Payment of grant for the.	51,800
Swami Shradhanand College, Alipur, Delhi.	-do-	58,000
Ram Lal Anand College (Day Classes), Anand Niketan Road, New Delhi.	-do-	93,000
Mata Sundri College for Women, Mata Sundri Lane, New Delhi.	-do-	1,27,000
St. Stephen's College, Delhi.	-do-	1,26,000
Kirori Mai College, Delhi.	-do-	2,40,000
P.G.D.A.V. College (Evening Classes), Mandir Marg, New Delhi.	-do-	95,000
Shri Ram College of Commerce, Patel Marg, Delhi.	-do-	1,45,000
P.G.D.A.V. College, (Evening Classes), Mandir Marg, New Delhi.	-do-	1,37,000
Nanand Shardhanand College, Alipur, Delhi.	-do-	1,69,000
Janki Devi Mahavidyalaya, Poorvi Marg, New Delhi.	-do-	2,70,000
Kalindi College, East Patel Road, New Delhi.	-do-	3,58,000
Sri Venkateswara College, Dhaura Kuan, New Delhi.	-do-	91,000

Delhi University (Contd.)

Affiliated Colleges

Hans Raj College, Delhi.	Additional expenditure on account of revision of scales of pay of the teaching staff - Payment of grant for the.	3,40,000
Maitreyi College, Netaji Nagar, New Delhi.	-do-	1,18,000
Shyama Prasad Mukherji College for Women, Tagore Gargen, New Delhi.	-do-	2,80,000
Satyawati Co- educational College (Evening Classes), Timarpur, Delhi.	-do-	36,000
Miranda House, Patel Chest Marg, New Delhi.	-do-	2,36,000
Delhi School of Social Work, 3, University Road, Delhi.	-do-	34,000
Shri Aurbindo College, Malviya Nagar, New Delhi.	-do-	1,03,000
Delhi College (Day Classes), Ajmeri Gate, Delhi.	-do-	4,16,000
Gargi College, Lajpat Nagar, New Delhi.	-do-	2,08,000
Hindu College, Delhi.	-do-	2,15,000
Shyam Lal College (Evening), Shahdara, Delhi.	-do-	2,10,000
Rajdhani College, Kirti Nagar, New Delhi.	-do-	76,900
-do-	-do-	1,05,000
College Vocational Studies, 7, Doctors' Lane, Gole Market, New Delhi.	-do-	1,10,000

P.T.O.

Delhi University Contd.

Affiliated colleges

Institute of Home Economics South Extension Part II, Ring Road, New Delhi.	Additional expenditure on account of revision of scales of pay of the teaching staff.	67,000
Rao Tula Ram college, Rao Tula Ram Marg, New Delhi.	-do-	32,000
Kamla Nehru college, Panchshill Park Marg, New Delhi.	-do-	1,16,000
Shyama Prasad Mukherjee college for Women, Tagore Park, New Delhi.	-do-	71,000
Ramlal Anand college, Anand Niketan Marg, Dhaura Kuan, New Delhi.	-do-	28,000
St. Joseph's college, Delhi.	-do-	48,500
Bhagat Singh college (Evening classes) Kalkaji, Govindpuri, New Delhi.	Additional expenditure on account of increased rates of Dearness allowance to teaching and non- teaching staff during 1974-75.	8,000
Deshbandhu college (Day classes) Kalkaji, New Delhi.	-do-	1,05,000
Deshbandhu college (Evening classes) Kalkaji, New Delhi.	-do-	42,000
Shivaji college, Karampura, New Delhi.	-do-	61,500
Satyawati Co-educational college (Day classes) Delhi.	-do-	31,900
Delhi School of Social Work, 3, University Road, Delhi.	-do-	16,000
Bhagat Singh college (Day classes) Kalkaji, Govindpuri, New Delhi.	-do-	56,500
Shyam Lal college (Day) Shahdara, Delhi.	-do-	51,100
Lady Irwin college, Sikandra Road, New Delhi.	-do-	46,500
Delhi college (Evening classes) Ajmeri Gate, Delhi.	-do-	39,500

Delhi University contd.

Affiliated colleges

	Additional expenditure on account of increased rates of Dearness allowance to teaching and non-teaching staff during 1974-75.	
S.G.T.B. Khalsa college, (Day classes) University of Delhi, Delhi.		76,400
Indraprastha college for Women, Delhi.	-do-	96,100
Sri Venkateswara college, Dhaura Kuan, New Delhi.	-do-	38,700
Daulat Ram college, Delhi	-do-	78,900
College of Vocational studies 7, Doctor's Lane, Gole Market, New Delhi.	-do-	23,000
Rao Tula Ram college, Rao Tula Ram Marg, Delhi.	-do-	12,300
Kirori Mal college, Delhi	-do-	74,500
Lakshmi Bai college, Ashok Vihar-III, Wazirpur, Delhi.	-do-	48,300
P.G.D.A.V. college (Evening classes) Mandir Marg, New Delhi.	-do-	31,800
P.G.D.A.V. (Day classes) Nohru Nagar, Ring Road, New Delhi.	-do-	38,800
Delhi college (Day classes) Ajmeri Gate, Delhi.	-do-	83,100
Maitreyi college, Netaji Nagar, New Delhi.	-do-	46,400
S.G.T.B. Khalsa college (Evening classes) Karol Bagh, New Delhi.	-do-	12,600
Hans Raj college, Delhi	-do-	86,600
Institute of Home Economics South Extension Part II, Ring Road, New Delhi.	-do-	28,500
Hastinapur college (Day classes) Moti Bagh, New Delhi.	-do-	66,300
Sri Aurvindo Mahavidyalaya, Malvia Nagar, New Delhi.	-do-	36,100
Vivekanand Mahila college, Gandhi Nagar, Delhi.	-do-	28,100
Hastinapur college (Evening classes) Moti Bagh, New Delhi	-do-	60,000
Janki Devi Mahavidyalaya, Poorvi Marg, New Delhi.	-do-	62,700
Jesus and Mary college, Panchishal Marg, Chankyapuri, New Delhi.	-do-	26,900
Gargi college, Lajpat Nagar IV New Delhi.	-do-	65,300

Delhi University Contd.

Affiliated colleges

Bharti Mahila college, Link Road, Karol Bagh, New Delhi.	Additional expenditure on account of increased rates of Dearness allowance to teaching and non-teaching staff during 1974-75.		35,900
Atma Ram Sanatan Dharma college, Dhaula Kuan, New Delhi.	-do-		90,700
Hindu college, Delhi	-do-		67,900
Lady shri Ram college for Women, Lajpat Nagar, New Delhi.	-do-		62,700
Dyal singh college (Day classes) Lodhi Road, New Delhi.	-do-		76,100
Ram Lal Anand college (Evening classes) Anand Niketan Marg, Dhaula Kuan, New Delhi.	-do-		11,400
Satyawati co-educational college (Evening classes) Timarpur, Delhi.	-do-		14,000
Miranda House, Patel Chost Marg, Delhi.	-do-		85,000
Ramjas college, Delhi	-do-		73,000
Kalindi college, West Patel Nagar, New Delhi.	-do-		71,800
Sri Ram college of Commerce, Delhi.	-do-		4,400
Delhi college (Day Classes) Ajmeri Gate, Delhi.	Grant for Hostel Mess staff for 75-76	Ist Instalment	1,600
Lady Shri Ram college for Women, Lajpat Nagar, New Delhi.	-do-	Ist	6,400
Ramjas college, Delhi	-do-	-do-	4,100
Hindu college, Delhi	-do-	1st	8,000
Kirori Mal college, Delhi	-do-	Ist	4,000
Miranda House, Delhi.	-do-		10,900
Lady Shri Ram college for Women, Lajpat Nagar, New Delhi	-do-	3rd	500
-do-	-do-	4th	8,200
Inderprastha college for Women, Sham Nath Marg, Delhi.	-do-	Ist	4,200
Delhi School of Social Work, University of Delhi, Delhi.	-do-	Ist	2,300
Hans Raj college, Delhi	-do-	Ist	7,000
Central Institute of Education Chhatra Marg, Delhi.	Maintenance Grant 1975-76-	Ist	2,45,000
Ramlal Anand college, Anand Niketan Marg, New Delhi	-do-	Ist	18,000



Delhi University Contd.

Affiliated colleges.

	Maintenance grant	Ist Instalment	
Satyawati co-educational college(Evening) Timappur, Delhi.	for 1975-76.	10,000	
Sri Ram college of Commerce, Delhi.	-do-	Ist 3,02,000	
Bharati Mahila college, Karol Bagh, Link Road, New Delhi.	-do-	Ist 1,06,000	
Ramjas college, Delhi	-do-	Ist 3,73,000	
Ram Lal Anand college (Day classes) Anand Niketan Marg, New Delhi	-do-	Ist 1,34,000	
Lakshmi Bai college, Ashok Vihar III, Wazirpur, Delhi.	-do-	Ist 3,09,000	
Shyam Lal college (Day classes) Shahdara, Delhi	-do-	Ist 2,62,000	
Kalindi college, East Patel Nagar, New Delhi.	-do-	Ist 2,60,000	
Hindu college, Delhi	-do-	Ist 2,82,000	
Mata Sundri College for Women, Mata Sundri Lane, New Delhi.	-do-	5th 14,000	
Gargi college, Lajpat Nagar, New Delhi.	-do-	Ist 2,00,000	
Atma Ram Sanatan Dharma college, Dhaula Kuan, New Delhi.	-do-	Ist 3,47,000	
Dyal Singh college (Day classes) New Delhi	-do-	Ist 3,72,000	
Deshbandhu college (Day classes) Kalkaji, New Delhi.	-do-	Ist 4,19,000	
Janki Devi Mahavidyalaya, Poorvi Marg, New Delhi.	-do-	Ist 3,42,000	
Bhagat Singh college (Day classes) Govindpuri, Kalkaji, New Delhi.	-do-	4th 71,900	
Delhi School of Social Work, Delhi.	-do-	Ist 1,20,000	
Swami Shardhanand college, Alipur, Delhi.	-do-	Ist 1,86,000	
Indraprastha college for women, Sham Nath Marg, Delhi.	Maintenance grant 74-75	5th 42,000	
-do-	Maintenance grant 75-76	Ist 4,45,000	
Sri Venkateswara college, Dhaula Kuan, Delhi.	-do-	Ist 1,74,000	
Bhagat Singh college (Evening classes) Kalkaji, New Delhi.	-do-	Ist 22,000	

Delhi University (Contd.)

Affiliated Colleges

Delhi College (Day Classes), Ajmeri Gate, Delhi.	Delhi Universities Constieuent Colleges - Maintenance grant for 1975-76 - Payment of.	1st	4,60,000
Lady Irwan College, Sikandara Road, New Delhi.	-do-	1st	2,96,000
Kamla Nehru College, Panch Shila Park Marg, New Delhi.	-do-	1st	3,19,000
Shyama Prasad Mukherji College for Women, Tagore Garden, New Delhi.	-do-	1st	2,40,000
P.G.D.A.V. College (Day Classes), Nehru Nagar, Ring Road, New Delhi.	-do-	1st	2,09,000
Lady Shri Ram College for Women, Lajpat Nagar, New Delhi.	-do-	1st	4,02,000
Gyan Devi Salwan College, Rajinder Nagar, New Delhi.	-do-	1st	1,34,000
Dyal Singh College (Evening Classes), Lodi Road, New Delhi.	-do-	1st	1,38,000
Miranda House, Patel Chest House, Delhi.	-do-	1st	5,04,000
Kirori Mal College, Delhi.	-do-	1st	4,16,000
Shri Aurbindo Mahavidyalaya, Malviya Nagar, New Delhi.	-do-	1st	72,000
S.G.T.B. Khalsa College, (Evening Classes), Karol Bagh, New Delhi.	-do-	1st	18,000

Delhi University (Contd.)

Affiliated Colleges

College of Vocational Studies, 7, Doctor's Lane, Gole Market, New Delhi.	Maintenance Grant for 1975-76 - Payment of.	1st	1,34,000
Institute of Some Economics, South Extension Part I, Ring Road, New Delhi.	-do-	1st	1,72,000
Vivekananda Mahila College, Gandhi Nagar, Delhi.	-do-	1st	1,37,000
Hastinapur College (Day Classes), Moti Bagh, New Delhi.	-do-	1st	3,50,000
P.G.D.A.V. College (Evening Classes), Mandir Marg, New Delhi.	-do-	1st	1,23,000
Shyam Lal College (Evening Classes), Shahdara, Delhi.	-do-	1st	1,93,000
Daulat Ram College, Delhi.	-do-	1st	5,08,000
S.G.T.B. Khalsa College (Day Classes), Delhi.	-do-	1st	4,92,000
Hans Raj College, Delhi.	-do-	1st	5,08,000
Dyal Singh College (Day), Lodi Road, New Delhi.	-do-	7th	1,00,000
Lady Shri Ram College for Women, Lajpat Nagar, New Delhi.	-do-	5th	30,700
Satyawati Co- educational College, (Evening Classes), Timarpur, Delhi.	-do-	4th	35,000
Mata Sundri College for Women, Mata Sundri Lane, New Delhi.	-do-	4th	1,20,000
Deshbandhu College (Evening Classes), Kalkaji, New Delhi.	-do-	4th	97,500

Delhi University (Contd.)

Affiliated Colleges

Sri Venkateswara College, Dhaura Kuan, New Delhi.	Maintenance Grant for 1974-75 - Payment of.	4th	75,000
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Total: 2,73,88,650

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4. Jawaharlal Nehru University

Revision of Dearness Allowance with effect from 1st June, 1st July and 1st September, 1974 - Payment of grant for meeting the additional expenditure on the - Maintenance Grant for 1975-76... 1st . . .	9,88,750
Payment of -	

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Total: 12,38,750

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5. Vishwa Bharati

Maintenance Grant for 1975-76 - Payment of.	1st	8,05,000
Revision of Dearness Allowance with effect from 1st June, 1st July and 1st September, 1974 - Payment of grant for meeting the additional expenditure on the -		4,51,950

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Total: 12,56,950

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Total Non-Plan 3,98,10,914

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Grand Total (Plan plus Non-Plan) 6,91,34,351.62

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 12th May, 1975

Item No.4: To receive a statement showing expenditure incurred by the University Grants Commission during the year 1974-75 (upto 31st March, 1975).

<u>SECTION I NON-PLAN PROJECT</u>	<u>Revised Estimates (in lacs.)</u>	<u>Provisional Expenditure upto 31st March 1975</u>
A. Administration Charges	59.51	58,63,217
B. Block Grants to Central Univ.	12,00.00	12,00,00,000
C. Maintenance grant to constituent/ affiliated colleges of Delhi Univ.	4,57.00 % * 7.12 %	= 4,64,13,039 - 1,53,14,000
D. Schemes not covered under Block Grants (DA, Revision of Pay Scales for Central Universities)	3,64.36	3,14,23,864
Total Section-I	<u>20,87.99</u>	<u>21,90,19,120</u>

SECTION II-PLAN PROJECTS

A. Grants to Central & State Universities for Humanities		3,30,13,855 *1,52,765
B. Grants to Central and State Universities for Science.		5,95,99,311 *10,24,423
C. Grants to Central and State Universities for Engineering and Technology.		2,75,26,509 3,652
D. Grants to Constituent/Affiliated Colleges.		3,80,98,110 * 9,331
E. Grants to Central & State Universities for Misc. Schemes.		8,93,97,050 *7,87,837
F. Misc. Expenditure		16,17,155 *5,522
Unesco Coupons		5,07,800
Dollar Loan Scheme		2,88,201
Ramcharitra Manas (invested in fixed deposits)		3,00,000
Total Section I	<u>25,58.50</u>	<u>25,03,47,991</u> <u>*19,88,530</u>
Total Section I & II	<u>47,24.49</u>	<u>46,93,67,111</u> <u>*19,88,530</u>

\* By adjustment

% 4,57,00,000	*Received from NCERT for CIE
7,12,560	- Maintenance
<u>Rs. 4,64,12,560</u>	- DA/Revision of Pay Scales

SECTION-III - Expenditure out of grants received from Government of India and other sources for specific purposes.

i)	Evaluation of Books	2,500
ii)	Grants to universities for organising Summer Institutes for school teachers (out of contribution received from NCERT)	1,07,046
iii)	Fellow for writing of books	8,14,057 @ 53,917
iv)	<u>National Sports Organisation Programme.</u>	
	a) Construction of Gymnasium	13,22,412
	b) Play fields	95,018
v)	Dr. Zakir Hussain Memorial Lecturers	5,522
vi)	Aurbindo Memorial Lecturers	22,600
vii)	Gandhi Samarak Nidhi	23,042
viii)	National Award of Prizes	@ 8,936
ix)	Ram Charitra Manus	1,350

Total Section-III

24,56,400

Total Section I, II & III

47,18,23,511

\* 19,88,530

Section-IV: Deposits and Advances

i)	Conveyance Advance	25,717
ii)	Festival Advance	19,800
iii)	House Building Advance	1,82,914
iv)	Fan Advance	300
v)	UGC Departmental Canteen	10,000

Total Section-IV:

2,45,731

Expenditure during 1973-74 (upto 31.1.1974) was as under:

Section-I Non-Plan Project	11,81,50,776
Section-II Plan Project	24,25,95,036

Total Section I & III

36,07,45,812

\* By Adjustment  
@ Administration charges

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 12th May, 1975

Item No.5: To receive a statement indicating the progress of issue of Utilisation Certificates during the period ending 15th April, 1975.

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The Commission had desired (Resolution No.5) dated . . . . . the 8th October, 1973 that it is kept informed of the progress of clearance of Utilisation Certificates every month. The statement showing clearance for the period ending 15th April, 1975 is given in Annexure.

Finance Officer

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OUTSTANDING UTILISATION CERTIFICATES

Year	Position as on 30.6.71		Position as on 1.4.75		Position as on 16.4.75	
	No. of Items	Amount in Lakhs of Rs.	No. of Items	Amount in Lakhs of Rs.	No. of Items	Amount in Lakhs of Rs.
1953-54	219	82.79	-	-	-	-
1957-58						
1958-59	344	138.25	156	19.53	151	19.36
1959-60	680	199.76	336	44.89	331	44.75
1960-61	967	258.99	565	105.71	557	103.73
1961-62	1291	353.20	743	173.58	743	173.53
1962-63	1793	301.21	1072	42.04	1070	42.02
1963-64	2343	404.45	1304	169.32	1293	168.81
1964-65	3783	605.40	2522	353.42	2513	362.92
1965-66	4752	660.32	2678	199.40	2669	199.08
1966-67	4426	703.61	2454	179.21	2444	173.43
1967-68	5764	1107.57	2678	175.99	2670	175.50
1968-69	8509	1545.98	4092	440.20	4066	439.49
<b>Total:</b>	<b>34876</b>	<b>6331.53</b>	<b>18600</b>	<b>1913.95</b>	<b>18507</b>	<b>1907.67</b>

Items Cleared (1.4.75 to 15.4.75) = 93

Amount Cleared = Rs.6.28 lakhs.



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UNIVERSITY GRANTS COMMISSION

Meeting, 12th May, 1975 (3)  
Dated: ., 1975

Item No. 5 To consider a reference from the Government of  
6 India, Ministry of Education & Social Welfare  
regarding payment of maintenance grants to  
"deemed" Universities by the University Grants  
Commission.

.....

The Ministry of Education and Social Welfare had suggested sometime in April, 1973 that the University Grants Commission may consider the question paying maintenance and development grants to the following deemed to be universities in pursuance of Section 12 (cc) of the UGC Act which empowers the Commission to allocate and disburse grants to deemed to be universities for maintenance in special cases and/or development and/or for any other general or specified purposes. The names of the institutions suggested being:-

- (1) Jamia Millia Islamia, New Delhi,
- (2) Kasni Vidyapith (since has become a State University),
- (3) Gujarat Vidyapith,
- (4) Gurukul Kangri Vishwavidyalaya, and
- (5) Tata Institute of Social Sciences.

The Ministry of Education had also indicated that in the case of Indian Institute of Science, Bangalore, and Indian School of Mines, Dhanbad, the responsibility for payment of maintenance grants to these Institutions should continue to be with the Technical Education Division of the Ministry of Education as it is important that the development and maintenance of Central/Technical Institutions including those deemed to be universities are dealt with in a coordinated manner.

The University Grants Commission had indicated that it would be prepared to take over the responsibility for the payment of maintenance grants to the institutions deemed to be universities which are at present receiving maintenance grant from the Government of India provided the work relating to the payment of maintenance grant in respect of all such institutions including the Indian Institute of Science, Bangalore and the Indian School of Mines, Dhanbad is transferred to the University Grants Commission alongwith the requisite non-plan funds. The Commission had also wanted to know then, whether under the University Grants Commission Act the Commission could give maintenance grants for schools also which are a composite part of a few of the Institutions deemed to be universities. The Ministry of

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Education subsequently indicated that the schools attached to some of the deemed to be universities are part and parcel of such institutions as they serve as practising schools for teacher training wings and cannot be delinked from the entire complex.

communication The Ministry has again in a recent discussed further indicated with the Union Education Minister and has suggested that that this if the Commission were to take over the development and matter has maintenance of the deemed to be universities indicated been earlier including the Central Institute of English and Foreign Languages, Hyderabad which has also since become a deemed to be university, it would not only result in better coordination of work but also would help in their proper development in line with the statutory universities. The Ministry on its part has suggested that the maintenance and development of these five institutions may be taken over by the University Grants Commission w.e.f. 1.4.1975 and for this purpose the Ministry of Education has also agreed that the provisions included in the budget estimates for 1975-76 Plan as well as non-Plan would be transferred to the Commission. The Ministry has further agreed that the final allocation agreed to for these institutions would also be transferred to the University Grants Commission so that the budget provisions and plan allocations will be utilised for these institutions only and they will not be merged with the corresponding provision of the Commission for its other schemes.

The following facts may be stated here in this connection.

- (1) At present the following Institutions are deemed to be universities under the UGC Act.
- |    |  |      |
|----|--|------|
| 1. | Indian Institute of Science, Bangalore                         | 1958 |
| 2. | Indian Agricultural Research Institute, New Delhi.             | 1958 |
| 3. | Gurukul Kangri Vishwavidyalaya, Haridwar.                      | 1962 |
| 4. | Jamia Millia Islamia, New Delhi                                | 1962 |
| 5. | Gujarat Vidyapith, Ahmedabad.                                  | 1963 |
| 6. | Tata Institute of Social Sciences                              | 1964 |
| 7. | Birla Institute of Technology & Science                        | 1964 |
| 8. | Indian School of Mines, Dhanbad.                               | 1967 |
| 9. | Central Institute of English and Foreign Languages, Hyderabad. | 1974 |

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The maintenance and development grants to the Indian Agricultural Research Institute, are provided by the Ministry of Agriculture. The Birla Institute of Technology and Science, Pilani is not being paid any maintenance grant so far, though this question had been taken up with the Ministry of Education a few years ago. All other institutions mentioned above are paid maintenance grant by the Ministry of Education now, though for some years in the past the University Grants Commission was paying maintenance grants to Indian Institute of Science, Bangalore from 1961 to 1966, Gurukul Kangri Vishwavidyalaya and Gujarat Vidyapith from 1964 to 1966, and the erstwhile Indian School of International Studies from 1961 to 1966. The payment of maintenance grant to these institutions were discontinued w.e.f. 1966-1967. When the controller and Auditor General opined that under the UGC Act maintenance grants could not be paid to institutions deemed to be universities. The Commission at no stage paid maintenance grants to Tata Institute of Social Sciences and the Jamia Millia Islamia. In the case of Jamia Millia Islamia grants were not paid at that time as expenditure on the institution included expenditure on schools run by it and schools did not come within the purview of a deemed to be university. However, Gujarat Vidyapith which is also running a school, the maintenance grant was paid by the University Grants Commission.

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Regarding the Indian Institute of Science, Bangalore, since 1966-67 the matching grants are provided by the Ministry of Education and this Institute has been treated for all intents and purposes as a Central University. The Birla Institute of Technology and Science, Pilani provides matching share from its own resources and so far as Indian School of Mines, Dhanbad is concerned, the Ministry of Education has already agreed to transfer the provision for developmental programmes, to the University Grants Commission.

The Commission at its meeting held in October, 1974 (item No. 6) while considering the recommendations of the Review Committee which reviewed the working of Indian Institute of Science) noted the fact that the maintenance grant to the Indian Institute of Science used to be paid by the Commission till 1965-66 and subsequently this was being paid by the Ministry of Education on the advice of the Law Ministry, since the University Grants Commission did not have the powers to pay maintenance grants to institutions which are deemed to be universities. The Review Committee's recommendations have been accepted by the Visitor (President of India) in principle and the Committee has also noted that under the amended UGC Act, the Commission would be solely responsible for both development and maintenance grants of the institute and considers that it is very necessary that the maintenance

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grants are also paid by the University Grants Commission. The Commission felt that in the best interest of the development of the Indian Institute of Science, Bangalore the grants provided under Plan and Non-Plan to the Institute should be paid from one source i.e. the University Grants Commission as suggested by the Review Committee. As decided by the Commission this matter has been taken up with the Government of India and a decision is awaited.

If the Ministry of Education is wanting to transfer the work of payment of maintenance grant to institutions deemed to be universities to the University Grants Commission as now the UGC under the amended Act is empowered to do so under Section 12(cc) of the UGC Act then, it should be more useful and it would lead to better and effective coordination if all the deemed to be universities, were paid maintenance grants by the Commission. In the case of Jamia Millia Islamia and Gujarat Vidyapith, the question of the competence of the University Grants Commission to pay such grants will however be needed to be sorted out.

..... It is also seen that the following budget provisions . . . exists/existed for payment of maintenance grants (non-plan in the Ministry of Education page) for the Institutions deemed to be universities as below:-

	<u>1973-74</u> Rs. in lakhs	<u>1974-75</u> Rs. in lakhs	<u>1975-76</u> Rs. in lakhs
1. Indian Institute of Science, Bangalore.	137.95	193.20	204.00
2. Indian School of Mines, Dhanbad.	27.70	43.74	41.77
3. Jamia Millia Islamia New Delhi.	27.74	37.40	37.40
4. Gurukul Kangri Vishwavidyalaya, Haridwar.	6.30	7.93	8.33
5. Kashi Vidyapith	8.80	-	-
6. Gujarat Vidyapith, Ahmedabad.	6.79	10.90	11.33
7. Tata Institute of Social Sciences Bombay.	7.30	9.78	9.74

The following are for consideration in this respect. (7)

1. Since the University Grants Commission is now empowered to pay maintenance grant to deemed to be universities, it would be better if the Commission pays the maintenance grants to all the deemed to be universities and not some of them.
2. The Ministry of Education & Social Welfare feel that in order to deal with the development and maintenance of all Central/Technical Institutions including Indian Institute of Science, Bangalore, and Indian School of Mines, Dhanbad in a coordinated manner, it is necessary that the responsibility for payment of maintenance grant to them should rest with the Ministry of Education. In view of the fact that the University Grants Commission is paying the development grants of both the Indian Institute of Science, Bangalore and Indian School of Mines, Dhanbad now, and as recommended by the Review Committee which reviewed the working of the Indian Institute of Science, Bangalore it would be desirable for the Ministry of Education to agree that the development and maintenance of both these institutions are dealt with by the University Grants Commission so that there would be better coordination of the development and growth of all the deemed to be universities.
3. While agreeing to this, it will have to be ensured in consultation with the Law Ministry that the University Grants Commission will be competent to give maintenance grants to Jamia Millia Islamia and Gujarat Vidyapith which have schools attached to them. But since these schools are only practising schools for the Teacher Training Wings of these Institutions it cannot be delinked from the entire complex as such the Law Ministry may be consulted about the competence of the University Grants Commission to pay the maintenance grant to these Institutions.
5. If it is agreed that the University Grants Commission would pay the maintenance grants to all the institutions deemed to be universities then the budget provisions that exists for 1975-76 would be required to be transferred to the University Grants Commission which the Ministry has already agreed in the case of five institutions indicated above.

The matter is placed before the Commission for its consideration.

E.O. (CP)

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting: \* 12th May, 1975  
Dated .

- Item No. 7 To consider proposals received from Colleges which are not at present participating in COSIP for participation in colleges humanities and social sciences improvement programme (COHSIP).

The Selection Committee constituted by the University Grants Commission to consider the question of selecting colleges for participation in COHSIP at its meeting in July, 1974 suggested that the Vice-Chancellors of the Universities may be requested to suggest names of a few colleges which in their view had good arts department and which could be invited to send proposals for participation in COHSIP. Accordingly, the Vice-Chancellors were requested in August, 1974 to suggest the names of about 10% of the total number of arts colleges of about 10 years standing affiliated to their universities for participation in COHSIP. The Commission received 106 proposals in response to this letter. These proposals were processed and graded in the same way as the proposals received from colleges participating in COSIP. The criteria for grading are indicated in Annexure I. The grade points secured by the 106 colleges are indicated in Annexure II. Twentynine colleges have secured 15 or more points in the grading as per details given in Annexure III. Three of these colleges have, however, less than 10 years standing. These colleges are V.W. Sabha's Arts & Commerce College, Dhulia, A.C. College of Arts and Science, Tiruchandur and Kamraj College, Tuticorin which were established in 1966, 1965 and 1966 respectively. The remaining colleges are of more than 10 years standing. State-wise details of colleges from whom proposals were received and colleges already selected and proposed to be selected is at Annexure-IV.

It may be mentioned in this connection that in the first selection under COHSIP, 42 colleges which were already participating in COSIP were selected and selection of these colleges was reported to the Commission at its February, 197 meeting (Item No. ). Colleges which had secured 15 or more grade points had been selected. Since then, proposals from 22 more COSIP colleges were received and 13 of these colleges have received more than 15 points in the grading. As desired by the Commission, their final selection will

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be made only after ascertaining their performance under  
CCSIP.

The suggestion for selecting 29 non-CCSIP colleges  
for participation in COSHIP is placed before the Commission  
for consideration.

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RATING OF COLLEGES FOR COHSIP

(10)

The Sub-Committee of the Committee appointed by the University Grants Commission to recommend colleges for assistance under the COHSIP Programme met on 19th September 1974 in the UGC Office. It was decided that the UGC office may make a preliminary scrutiny of the colleges to be covered under the COHSIP in the light of the following criteria:-

- 1) Quality of staff
- 2) Number of books and journals
- 3) Staff-Student Ratio
- 4) University results at the B.A. final level
- 5) Quality of programmes.

Rating of the colleges on a 5-point scale in respect of each of the following items is given below:-

1) Staff:

- (a) Proportion of Ph.Ds.
- (b) Proportion of 1st class M.As. on the staff

## 2) Books &amp; Journals:

3) Staff-Student Ratio:4) Examination results at the final B.A. level.

The key used in rating the colleges in respect of each of the items mentioned above is given below:-

(1)	<u>Examination Results</u>	<u>Points</u>
	100 to 90%	5
	89 to 75%	4
	74 to 60%	3
	59 to 50%	2
	Below 50%	1
(2)	<u>Staff</u>	<u>Points</u>
	(a) Ph.Ds. Percentage of the staff (Cumulative for all departments)	
	33% and above	5



(11)

Between	33% and 25%	4
"	25% and 20%	3
"	20% and 10%	2
"	10% and Nil	1
		0

b) First-Class M.As: Proportion of the total: (Cumulative for all departments)

Between	66% and above	5
"	60% and 50%	4
"	50% and 40%	3
"	40% and 33%	2
"	30% and 25%	1
	Below 25%	0

3) Staff-Student Ratio:

It was felt that the staff-student ratio in a college is the key to the success of any qualitative improvement programmes in an institution and more so in the case of the COHSIP. In view of this, the weightage given to the staff-student ratio is double that of the weightage given to their items:

		<u>Points</u>
Between	1.20 and better	10
"	1.20 and 1.30	8
"	1.30 and 1.40	6
"	1.40 and 1.60	4
"	1.60 and 1.80	2
	1.80 and below	0

4) Books and Journals:

Books

	<u>No. of Books</u>	<u>Points</u>
Between	50,000 and above	5
"	40,000 and 50,000	4
"	25,000 and 40,000	3
"	10,000 and 25,000	2
"	5,000 and 10,000	1

(b) Journals

<u>No. of Journals</u>	<u>Points</u>
500 to 400	5
400 to 300	4
300 to 200	3
200 to 100	2
100 to 50	1

Books and journals relating to all departments in the Humanities and Social Sciences in the library of the colleges have been pooled together for the purpose of calculating the rating in respect of these two items.

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Grading of proposals received  
from Colleges for participating  
in COHSIP.

A. Assam State  
B. No. of Universities (2)  
v. Dibrugarh, Gauhati.  
C. No. of Colleges.  
D. No. of proposals received-8

No.	Name of the College	Exam. Result	Staff Strength M.D's	Strength M.A. M.Sc. Ist Class.	Students Teachers Ratio.	Books and Journals	Rating for the colleges.	Remarks.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
<u>A- Dibrugarh University.</u>									
1.	Dergaon K.D. College, Dergaon.	2	0	0	6	1	0	9	-
2.	D. Girls College, Jornhat.	2	0	0	6	1	0	9	-
3.	North Lakhimpur College, North Lakhimpur.	2	0	0	5	2	0	9	-
4.	Debraj Raj College, Golaghat.	2	1	0	5	1	0	9	-
<u>B- Gauhati University.</u>									
5.	Nowgong College, Nowgong.	2	0	0	5	2	5	14	-
6.	Cotton College, Gauhati.	4	1	0	2	5	0	12	-
7.	M.C. College, Barpeta.	0	0	0	3	1	0	4	-
<u>A. Kerala State</u>									
B. No. of Univs.(2) Calicut, Kerala.									
C. No. of Colleges.									
D. No. of proposals received-9.									
<u>A. Calicut University.</u>									
8.	P.S.M.O. College, Tirurangadi	0	0	1	0	1	0	2	-
9.	Govt. Brennen College, Tellicherry.	3	0	2	0	3	30	12	-

(14)

## Kerala State.(Contd.)

1.	2.	3.	4.	5.	6.	7.	8.	9.
10.	S.N. College, Cannanore.	3	0	0	8	0	0	11
11.	Govt. Victoria College, Palghat.	5	0	NI	4	0	0	9
12.	Christ College, Irinjalkuda	3	1	0	N.I.	3	N.I.	7
13.	Farook College, Farook	3	1	0	6	2	NI	12
14.	Providence Women's College Calicut.	4	1	0	4	2	0	11

A- Andhra State  
 B. No. of Univ.s (2) Andhra,  
 Sri Venkateswara.  
 C. No. of Colleges.  
 D. No. of proposals received. 8

A. Andhra University.

15.	St. Joseph's College for Women, Waltair.	2	0	1	10	2	1	16
16.	Govt. College, Srikakulam	1	0	0	NI	2	0	3

B. Sri Venkateswara University.

17.	D.K. Govt. College, Nellore.	1	0	0	0	2	0	3
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A-Orissa State.  
 B. No. of Universities (3)  
 Sambalpur, Utkal & Berhampur.  
 C. No. of Colleges.  
 D. No. of proposals recd. 9.

A. Sambalpur University.

18.	Kalahandi College , Bhawanipatna.	3	0	2	0	1	0	6
19.	Rajendra College, Bolangir.	3	0	3	0	2	0	8
20.	Sungargarh College , Sungargarh.	2	0	0	4	1	0	7

1. ----- 2. ----- 3. ----- 4. ----- 5. ----- 6. ----- 7. ----- 8. ----- 9. ----- 10. -----

B. Utkal University.

21. B.J.S. College, Bhubaneswar.	4	1	5	8	2	5	25	-
22. M.F.C. College, Bariapada.	3	1	0	8	3	1	16	-
23. Bhadrak College, Bhadrak.	2	1	0	10	3	NI	16	-

C. Berhampur University.

24. Vikram Deb College, Jaypore.	2	0	1	10	2	0	15	-
25. Govt. College, Phulbani.	2	1	3	0	2	5	13	-
26. Govt. Women's College, Berhampore.	3	0	1	8	2	0	14	-

A- State Uttar Pradesh.  
 B- No. of Univs. (5) Lucknow, Allahabad,  
 Kanpur, Meerut & Kumaon.  
 C- No. of Colleges.  
 D- No. of proposals received -9.

A- Allahabad University.

27. Allahabad Degree College, Allahabad.	4	2	2	4	2	0	14	-
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B- Meerut University.

28. D.A.V. College, Bulandshahr.	3	2	0	4	2	1	12	-
29. D.J. College, Baraut (Meerut)	3	3	2	8	3	2	21	-
30. J.V. Jain College, Saharanpur.	4	2	2	0	3	NI	11	-
31. K.K. Jain Degree College, Khatauli.	4	3	0	2	2	1	12	-
32. M.M.M. College, Modinagar	4	4	3	3	3	2	20	-

C- Kumaon University.

33. Govt. P.G. College, Almora.	4	2	3	8	2	1	19	-
34. Govt. P.G. College, Pithoragarh.	5	2	2	2	2	NI	13	-

(16)

A- Gujarat State  
B- No. of Univs. (3) Saurashtra, South Gujarat & Sardar Patel.  
C- No. of Colleges.  
D- No. of Proposals received-9.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

A- Saurashtra University.

35.	Samaldas Arts College, Bhavnagar.	5	0	0	NI	3	1	9	-
36.	S.S.P. Jain Arts & Commerce College, Dhrangadhra.	5	1	0	10	1	1	18	-
37.	Metushri Virbarina Mahila College, Rajkot.	5	2	0	8	2	0	17	-
38.	D.M.V. Arts & Science College, Jamnagar.	4	0	0	10	2	1	17	-
39.	Kamani Science & Pratarai Arts College, Amreali.	5	1	0	10	2	0	18	-

B. South Gujarat University.

10.	M.T.B. Arts College, Surat.	4	3	1	6	3	5	22	-
11.	Ent. J.P. Shraff Arts College, Bulsar (Valsad).	4	0	0	2	2	5	13	-

C- Sardar Patel University.

12.	T.V. Patel Arts College, Vallabh Vidyanagar.	5	1	0	6	2	1	15	-
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A- Maharashtra States  
B- No. of Univs. (4) Bombay, Marathwada, Nagpur and Poona.  
C- No. of Colleges.  
D- No. of proposals received-21.

A- Nagpur University.

13.	Janta Mahavidyalaya, Chandrapur.	1	0	0	8	2	1	12	-
14.	Nabira Mahavidyalaya, Katol.	2	2	0	*10	2	1	16	*Teach stude
45.	Lady Amritabai Daga College, for Women, Nagpur.	2	1	0	5	2	0	10	avail fo Ex



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
62.	Karnatak Arts College, Dharwar.	3	1	0	1	5	NE	10	-
63.	Shri Vijay Mahanton Arts & Sc. College, Ilkal.	3	6	1	9	1	0	14	-
65.	S.B.B. College of Commerce, Gulbarga.	3	0	0	0	2	NE	5	-
66.	S.B.B. College of Arts, Gulbarga.	3	0	0	4	2	1	10	-
67.	B.V.B. College of Arts and Science, Baldar	3	0	0	6	1	NE	10	-
68.	Smt. V.S. College for Women, Gulbarga.	1	0	0	7	1	0	9	-
69.	J.G. College of Commerce, Hugli.	1	0	0	0	2	1	4	-

A- State: Tamil Nadu (1)  
 B- No. of Universities (2) Madurai & Madras.  
 C- No. of Colleges.  
 D- No. of proposals received-17.

A- Madurai University.									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
70.	Jurulmigu Palaniandavar Arts College, Palni.	2	0	0	10	2	0	14	-
71.	Arya Nadar Janaki Ammal College, Sivakasi.	4	0	0	10	0	0	14	-
72.	G.T.N. Arts College, Dindigul.	5	0	0	6	0	0	11	-
73.	N.M.S.S.V.N. College, Nagamalai, Madurai.	4	0	0	8	1	0	13	-
74.	Aditanar College of Arts & Science, Thiruchendur.	4	0	0	8	2	1	16	-
75.	Sarah Tucker College, Palayankottai.	4	1	0	10	2	1	18	-
76.	Sri Praskathi College for Women, Overtallam.	5	1	0	10	1	0	17	-
77.	Kamraj College, Tuticorin.	5	0	0	10	1	1	17	-
78.	Scott Christian College, Nagarcoil.	3	1	0	6	3	2	15	-

## B- Madras University.

79.	Agurchand Manmull Jain College, Meenambakkam (Madras)	1	2	0	4	2	1	10	-
80.	Stella Maris College, Madras-86.	5	0	2	8	3	5	23	-
81.	Jamal Mohamed College, Thiruchirappalli.	3	0	0	3	2	1	9	-



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
82.	Ethiraj College for Women, Madras.	4	1	0	8	2	0	15	-
83.	Govt. Arts College, Salem	NI	1	0	10	2	NI	13	-
84.	Rajah Serfoji Govt. College, Thanjavur.	2	0	0	NI	2	0	4	-
85.	A.V.C. College, Mayuram	2	1	0	8	2	1	14	-
86.	A.V.V.M. Sri Pushpan College, Thanjavur.	2½	0	0	4	0	NI	6½	-
87.	Sri Avinashi Lingom House Science College for Women, Coimbatore.	4	1	3	10	4	5	27	-

A. States (4) Bihar, M.P., West Bengal, Karnataka  
 B. No. of Universities (4): Patna, Magadh, JFS University, Burdwan, Bangalore.  
 C. No. of Colleges (2) (1) (1) (2)  
 D. No. of proposals received:

B. Madhya Pradesh  
A. A.P. Singh University  
 C. West Bengal  
A. Burdwan University

88.	Govt. Degree College, Tikangarh.	3	3	2	2	0	10	-	
89.	Saldaha College, Saldaha	5	0	0	4	1	NI	10	-



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
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A. State: Meghalaya, Panjab  
 B. No. of Universities (1) North Eastern Hill university,  
 Guru Nanak University.  
 C. No. of Colleges  
 D. No. of proposals received:

A. North Eastern Hill University

97.	St. Anthony's College, Shillong.	2	0	0	10	2	NI	14	-
98.	St. Mary's College, Shillong.	5	0	0	6	1	5	17	-
99.	Lady Keans' Girls College, Shillong.	3	1	0	2	2	0	8	-
100.	Fachhunga Memorial Govt. College, Aizawl.	2	0	0	0	2	0	4	-

B. Panjab  
Guru Nanak University

101.	Barring Union Christian College, Batala.	3	1	0	NI	2	2	8	-
102.	Hansraj Mahila Vidyalaya, Jullundur.	4	1	2	0	2	1	10	-

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1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
<u>Madhya Pradesh</u> <u>Indore University</u>									
103.	PMB Gujarati Arts Commerce & Law College, Indore.	3	2	0	6	0	NI	11	-
104.	Govt. Arts & Commerce, College, Indore.	4	1	0	10	5	NI	20	-
105.	Indore Christian College, Indore.	4	5	0	0	3	2	14	-
<u>Ranchi University</u>									
106.	NS College, Bargh (Patna)	3	4	1	7	4	5	21	To be included in the list.

Colleges proposed to be selected under  
CCHSIP

(2037)

Sl. No.	Name of the College	University	No. of points in the grading	Year of Establishment
1	2	3	4	5
1.	St. Mary' College, Shillong	NEHU	17	1937
2.	St. Joseph's College for Women, Waltair	Andhra	16	1958
3.	B.J.S. College, Bhubaneswar	Utkal	25	1957
4.	M.P.C. College, Baripada	-do-	16	1948
5.	Bhadrak College, Bhadrak	-do-	15	1943
6.	V.D. College, Joypur (Koraput)	Borhampur	15	1947
7.	Govt. Science, College, Phulbani	-do-	16	1960
8.	J.J. College, Baraut	Moerut	21	1947
9.	M.M. College, Modinagar	-do-	19	1957
10.	Govt. P.B. College, Nimora	Kumaun	18	1950
11.	T.V. Patel Arts College, Vallabh Vidyanagar	Sardar Patel	15	1964
12.	S.S.P. Jain Arts & Commerce College, Bhrangadhra	Saurashtra	17	1964
13.	M.V. Mahila Arts & Sc. College, Rajkot	-do-	17	1963
14.	Kamani So. & Prataprai Arts College, Anreli	-do-	18	1961
15.	D.A.V. Arts & Sc. College, Jamnagar	-do-	17	1954
16.	M.T.B. Arts College, surat	South Gujarat	22	1919
17.	Smt. M.C. Gandhi Mahila College, Bhavnagar	S.N.D.T. Women's	15	1951
18.	Nabira Mahavidyala, Satol	Magpur	16	1961
19.	M.J. College, Jalgaon	Poona	15	1945
20.	V.V. Sabha's Arts & Com. College, Dhulia	-do-	16	1966
21.	S.S.V.P. Sansthas Arts & Com. College, Dhulia	-do-	16	1956

(24)

1	2	3	4	5
22.	A.C.College of Arts & Sc. Tiruchandur	Madurai	16	1965
23.	S.T.College, Palymkottair	-do-	18	1939
24.	S.P.College for women, Courtaelam	-do-	15	1964
25.	..amraj College of Tuticorin	-do-	17	1966
26.	Scott Christian College, Nagarcoil.	-do-	15	1903
27.	Stella Maris College, Madras	Madras	23	1947
28.	Ethiraj College for Women	-do-	15	1948
29.	A.N.College, Barh	Magadh	21	1956
30.	Marwari College, Bhagalpur	Bhagalpur	18	1944
31.	Govt. Arts & Com. College, Indore.	Indore	20	1961

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Annexure IV to Item No.7

(25)

State-wise summary of proposals received under COHSIP and the colleges selected/proposed to be selected.

S.No.	State	Total No. of colleges	No. of proposals received from		COHSIP Colleges selected including 13 colleges which have more than 15 points and whose cases are under consideration	Other colleges proposed to be Selected	Total
			COHSIP	Other colleges.			
1.	Andhra	182	12	3	3	1	4
2.	Assam and Adj.States	103	4	11	2	1	3
3.	Bihar	201	5	4	3	2	5
4.	Gujarat	199	2	8	2	6	8
5.	Kerala	123	8	7	7	-	7
6.	Maharashtra	348	14	15	11	5	16
7.	Karnatak	212	7	12	2	-	2
8.	Orissa	89	3	9	2	5	7
9.	Panjab	222	2	5	2	-	2
10.	Rajasthan	109	1	-	1	-	1
11.	Tamil Nadu	192	12	18	5	7	12

Contd.

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12.	U.P.	278	18	8	12	3	15
13.	West Bengal	256	4	1	3	-	3
14.	Madhya Pradesh	238	-	5	-	1	1
			<hr/>				
			93	106	55	31	86
			<hr/>				



Confidential.

(27)

UNIVERSITY GRANTS COMMISSION

Meeting: 12th May,  
Dated . . . ,75.

Item No. 8 To consider the proposal of the Kashmir University for grant of Rs. 1.89 lakh for meeting the salaries and other recurring expenditure for the financial year 1974-75 in respect of Gulmarg Research Observatory.

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The Gulmarg Research Observatory was started functioning in 1951 as a joint venture of the Aligarh Muslim University and erstwhile Jammu & Kashmir University with a view to (a) Carrying out research programme in physics and biological sciences connected with high altitude (b) imparting training to young scientists in high altitude research leading to the Ph.D. (c) helping in teaching of postgraduate classes in the department of Physics and in the departments of other government colleges in Srinagar and (d) providing basic facilities and other institutions. The Observatory was formally inaugurated in 1954.

Funds for the establishment and maintenance of the Observatory were provided by the physics departments of the two universities. In addition, an aid of ₹.78,000/- was also provided for the purchase of major items of scientific equipment under the India Wheat Loan Education Exchange Programme. The first visiting committee of the UGC headed by Professor S.K. Mitra also recommended a grant of Rs. 3,07,000/- under recurring and non-recurring heads in 1956-57. The grant was further enhanced in the year 1958-59, on the recommendations of another UGC Visiting Committee headed by Professor S. Bhagvantam.

The Observatory ran into certain difficulties when the Aligarh Muslim University decided to withdraw the support and recommended its closure. But in 1962, the erstwhile University of Jammu & Kashmir decided to support the Observatory even though the support from the Aligarh Muslim University was withdrawn. The Managing Committee of the Observatory decided in 1964 that the University of Jammu and Kashmir should assume direct responsibility for the administration of the Observatory and the scientific staff of the Observatory should assist in the development of the physics department of the University of Jammu and Kashmir specially during summer months.

to interested research workers in various universities

contd..

(8)

The third visiting committee of the UGC with Professor B.D. Nagchaudhari as its Chairman, examined in 1964 the development of the Gulmarg Research Observatory keeping in view the Laboratory established by the Department of Atomic Energy in Gulmarg. The committee felt that the work of the two laboratories would not involve any undue duplication and that the Gulmarg Research Observatory under the University of Kashmir had tremendous potentialities for developing new lines of investigation like high altitude research in biology, physiology, meteorology etc., besides physics. The Committee recommended that a Scientific Advisory Committee may be set up with representatives of other universities and a few experts from outside for advising on the lines of work for Laboratory, indicating the new fields for investigations and suggesting ways for collaboration with other universities and enlisting their cooperation.

The Commission supported the Gulmarg Research Observatory on 100% basis on the recommendations of the Expert Committees appointed by the Commission from time to time for the purpose.

The strength of the staff, teaching and non-teaching, as sanctioned by the Commission on the recommendations of the Visiting Committees till the end of the Fourth Plan is as follows:

(a) Teaching & Administrative Staff:

i)	Professor (Rs. 1100-1600)	One
ii)	Reader (Rs. 700-1250)	One (Vacant)
iii)	Scientific Officer (Rs. 400-950)	Three (One vacant)
iv)	Lecturer (Rs. 400-950)	One (Vacant)

(b) Other Staff.

1.	Minstry (Rs. 280-520)	One
2.	Head Asstt. Cum-Accountant (Rs. 280-520)	One
3.	Lab. Asstt-cum-Store Keeper (Rs. 220-430).	One
4.	Mechanic (Rs. 300-580)	One
5.	Electrician (Rs. 280-520)	One
6.	Driver (Rs. 220-430)	One
7.	Orderly (Rs. 170-230)	One
8.	Lab. Attendants (Rs. 170-230)	Three
9.	Sweeper. (Rs. 170-230)	One.

In addition to the above, the Fourth Plan Visiting

contd...

Committee recommended the following grants for the Gulmarg Research Observatory for the Fourth Plan period:

1.	Consumable Stores	Rs. 15,000/-	p.a.
2.	Special Hill Allowance.	Rs. 5,000/-	"
3.	Water & Electricity.	Rs. 5,000/-	"
4.	Library Books & Journals.	Rs. 5,000/-	"
5.	Maintenance of Jeep.	Rs. 2,500/-	"
6.	Workshop expenses.	Rs. 1,000/-	"
7.	Visiting Scientists	Rs. 2,500/-	"
8.	Scientific Equipment.	Rs. 1,20,000/-	"
9.	Building etc.	Rs. 1,00,000/-	"
10.	Jeep Station Wagon.	Rs. 25,000/-	"
11.	Books & Journals.	Rs. 25,000/-	"

The above grants were sanctioned to the University subject to the condition that the Commission's assistance for the purpose was upto the Fourth Plan period (1973-74) and thereafter the university/State Government would have to meet the recurring expenditure of the Gulmarg Research Observatory.

A committee was appointed under the Chairmanship of Dr. A.R. Verma, which visited the university on 10-12th May, 71. This committee made recommendations regarding the organizational and administrative set up as well as evolving suitable scientific programmes both of short-term as well as of long term nature. The summary of recommendations may be seen in Annexure-I.

Subsequently a committee under the Chairmanship of Dr. R. Ramana, Director, Bhabha Atomic Research Centre visited the Gulmarg Research Observatory from 14-16th September, 1972. The Committee mainly examined the question of development of suitable scientific programmes, both teaching and research, which could be initiated at the Observatory. The Committee accordingly suggested development of studies in environmental sciences and taking up of research programmes related to these training programmes and of their relevance to the high altitude. It was suggested that the studies in environmental sciences could be developed at the Master's degree level leading to a two-year M.Sc. degree. The courses could emphasise areas of (a) physical sciences and (b) biological sciences. The syllabus for each of the courses was also suggested by the Committee. A copy of the brief note prepared on the basis of the visit of the committee is enclosed Annexure-II.

The recommendations of the committee were communicated to the Kashmir University for their comments. From an enclosure to a letter dated 26.12.1974 from the Governor of Jammu and Kashmir addressed to the Education Minister it transpires that the recommendations of the committee were

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to be examined by a select committee appointed by the University and its recommendations would be placed before the academic and executive authorities of the universities. The comments of the university in this regard have not been received so far. A copy of the letter dated the 21st December, 1974 from the Governor, Jammu and Kashmir to the Union Minister for Education and Social Welfare alongwith a note (which was placed before the Special Meeting of the Syndicate) received from the Ministry of Education & Social Welfare is enclosed as Annexure-III. According to him, such re-thinking about the future of the Centre has been necessitated due to the maintenance of the Observatory consequent upon stoppage of assistance from the Commission with effect from 1.4.1974. However, in the face of different views expressed by various people regarding the future of the Observatory, the Governor desired that the question may be examined not from a narrow financial angle regarding its maintenance but from the wider angle of considering its utility and scope and putting its potential to the best possible use from the national point of view. He felt that this objective could be attained if the Jawahar Lal Nehru University took over the observatory rather than Kashmir University taking it over. The Ministry was informed that the matter regarding assistance to Gulmarg Research Observatory was discussed in detail by the Fifth Plan Visiting Committee appointed by the Commission to assess the needs of the University. The Report of the Committee is being placed before the Commission separately and the decision taken by the Commission in this regard will be intimated to the Ministry/University. The University of Kashmir was also requested to let the Commission know the decision taken by the Syndicate on the note.

The Report of the UGC Visiting Committee which assessed the needs of the Kashmir University (Gulmarg Research Observatory) is yet to be considered by the Commission. However, the observations and recommendations made by the Committee may be seen at Annexure-IV.

The Kashmir University has now requested the Commission to provide a grant of Rs. 1.89 lakh (Rs. 1.34 lakh as salaries and Rs. 0.55 lakh for other recurring items of committed nature) for meeting the salaries of staff and other recurring expenditure in respect of the Gulmarg Research Observatory at least for the financial year 1974-75 as the University has no resources of its own to feed the Observatory.

A copy of the letter received from the Kashmir University in the matter is also enclosed as Annexure-V.

The matter is placed before the Commission for consideration.

A.G.(D-2(A))/DS(D-2)

Extract from the report of the committee appointed by the Commission which visited Kashmir University during 1971.

The first important issue related to the status of this High Altitude Observatory in relation to the University of Kashmir. The State Government should take immediate steps to transfer to the University of Kashmir the land and the buildings constituting the present Gulmarg High Altitude Laboratory. The total area required for the laboratory would be about 4 to 5 acres with the present laboratory as the central set up. Such a clear title and position of the Laboratory with the University of Kashmir would allow the proper maintenance of the existing laboratories, additions and expansion proposed with the help of the grants available from the University Grants Commission. The Committee is of the view that such a transfer should be effected soon. However, the Committee was informed that the Central Government had plans for developing Gulmarg as a tourist centre and consequently all developments had to be cleared by the architects appointed by the Central Government. The Committee requested the Chief Minister and the Chancellor of the University to take up this matter at the higher level to obtain the clearance for the development of Gulmarg High Altitude Observatory without reference to the other developments on a priority basis. This would help the speedy implementation of the programme of improvement of the existing laboratory and construction of additional laboratories required for the work. With one of the laboratories recently gutted by fire, the laboratory accommodation has been very inadequate. The State Government should arrange to provide one or two hutments early for use of the laboratories, until such time new laboratories could be added by the University.

(2) The Act of the University of Kashmir may be suitably amended to incorporate the High Altitude Laboratory at Gulmarg as an independent department, either as a department of High Altitude Studies or Department of Environmental Sciences, so that the department would function as an integral teaching and research department of the university and inter-act with other departments in the various faculties of the university. The present staff of the department should then be absorbed as staff of the university and be designated in the nominal positions prevailing in the university departments.

(3) The State Government and the University of Kashmir should take note of the fact that Gulmarg Laboratory and its environments are an unique possession of the University of Kashmir which enables it to undertake scientific studies at the high altitude which other universities in the country cannot initiate despite their resources. As expressed by Professor A.N. Compton, Nobel Laureate as early as in 1954, "the location of the high altitude laboratory is of special significance to India's programme of scientific development. The height of 9000 ft. of the laboratory compares

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favourably with other High Altitude Laboratories of the world and provides the best situation for work at higher altitude upto 11,000 ft. at Killian Marg and upto 14,000 ft. at Apharvat. The latitude and longitude of Gulmarg are of special significance. The typical fields of high altitude research that could be undertaken relate to (a) Cosmic Ray Study (b) Solar Radiation Studies especially in the Ultraviolet (c) Physiologically studies of the effects of low oxygen density of practical importance connected with life in the higher altitudes of Kashmir, Ladakh and Tibet. Each of these fields offers a distinctive opportunity for contributions by Indian scientists. Because of the distinctive geographical setting, experimental work of importance can be performed without the elaborate and expensive equipment that is necessary to compete favourably in most other fields of scientific research." Professor Crompton concluded that this observatory could afford an important opportunity for development of Indian experimental science at high altitude. A similar opinion was subsequently expressed by Professor JBS Maldani, who visited the Gulmarg Laboratory in 1959.

The Committee fully endorses the above views and strongly urges the University of Kashmir and the State Government to encourage the development of Gulmarg Laboratory into an inter-disciplinary set up to provide for high altitude studies in physical and biological sciences. It would subsequently lead to an understanding of the Environment at this altitude, and to initiate suitable programmes of teaching and research in these areas and encourage inter-action with other departments in different faculties of the university. Programmes of this type could be only developed by institutions like University of Kashmir and accordingly its academic programmes need not necessarily be on the same lines followed by other universities in the country.

(4) With the proper development of this Laboratory as a teaching cum research department, the facilities available could then be utilised by other universities of the country interested in Environmental Sciences in high altitude. The Laboratory could be developed on the pattern of the Trieste Centre for Theoretical Physics and Marine Biological Laboratory at Naples where other Indian Universities could maintain work tables and use of facilities on payment of nominal annual subscription. The programmes to be undertaken by these universities may or may not have a close relationship with the programmes of work undertaken by the staff of the Department of High Altitude Studies.

The Committee therefore strongly suggests that consequent upon determining the status of this Observatory within the university of Kashmir and giving a clear title of the land and laboratory of the University, the University may appoint

a representative Scientific Committee which would help to draw up suitable programmes of scientific activities, both teaching and research, which could be undertaken by the Department of High Altitude Studies over the next five years. This programme and its successful implementation would help in evolving long range scientific activities for future years and cooperation with various universities in the country. The appointment of such a committee and drawing up of scientific programmes is crucial to the very existence of this laboratory and should, therefore, be taken up without any delay. The programmes should represent the multi-disciplinary character of the studies to be initiated and should be effectively implemented with the help of well qualified staff. The Committee would like to stress here that the appointment of a Director or Head of the Laboratory with broad interests in high altitude studies who can provide effective leadership is of fundamental importance to the functioning of this laboratory.

The State Government and the University Grants Commission should provide necessary assistance for the establishment required to support such multi-disciplinary activities at this laboratory, and utilised it both as a university facility and also a national facility of an unique nature.

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'CHUGH'

Brief note prepared on the basis of the visit of the Expert Committee to Kashmir (Gulmarg Research Observatory) University during 1972 to examine development of suitable programmes.

The University of Kashmir have recently recognised and issued a notification to declare the Gulmarg Research Observatory as one of the constituent units in its Faculty of Science. As suggested by the earlier Expert Committee, the present Committee has mainly examined the question of development of suitable scientific programmes both teaching and research which could be initiated at Gulmarg Research Observatory. The main emphasis is to promote high altitude studies both in the areas of Physical Sciences and in Biological Science in view of the special and rather unique nature of the location of the Gulmarg Laboratory. It is suggested that the Gulmarg Laboratory may develop studies in environmental sciences and take up research programmes related to these training programmes and of relevance to the high altitude. The studies in environmental sciences could be developed at the Master's degree level leading to a two-year M.Sc. degree. The courses may emphasise areas of (a) physical sciences and (b) biological sciences. The suggested syllabus for each of these programmes is given below:-

#### PHYSICAL SCIENCES:

The observatory staff in the last four years have been engaged in the study of Atmospheric Physics, particularly the Atmospheric Electricity. The observatory has developed basic facilities partially with the active support of India Meteorological Department for studies in Meteorology in general. Though the observatory has its own programme of research (the details of which have already been furnished to the Expert's Committee of the University Grants Commission which visited the observatory in 1972). The courses can be developed through collaboration with other universities and institutes in conducting the following studies:-

- (i) The study of cloud Physics in collaboration with Indian Institute of Tropical Meteorology, Poona;
- (ii) Studies in upper atmosphere, Night Air Glow in collaboration with the J.K. Institute of Applied Physics & Technology, University of Allahabad, Allahabad, who have agreed to instal their equipment at the observatory for joint programmes;
- (iii) Studies in Atmospheric Electricity and Cloud Physics, in collaboration with the Environmental Physics group, Department of Physics, University of Roorkee, Roorkee.
- (iv) India Meteorological Department have agreed to offer us on loan one 10 cm. Radar for studies in weather. This instrument shall also be useful to the students.



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Considering the advances made by the Atmospheric sciences in the last 25 years or so and the ever increasing role these are bound to play in future and keeping in view the facilities available at the observatory, course will be based primarily on Meteorology. The course may be named as "Environmental Physics" to keep its scope broad based. After having discussions with various experts and groups working in the country we feel convinced that such a course would not only be well received but is actually the need of the hour. The following excerpts from an editorial which appeared in Jan-March, 1972 issue of Vayu Mandal on 'Meteorological Education & Training' are noteworthy.

"A great deal of involvement in Meteorology on the part of the majority of our universities and higher technical institutions is a positive necessity."

"On the national scale, the need for qualified meteorologists is already substantial and requirement is bound to grow very substantially later on during this decade."

"It seems likely that in the years to come, the degree of application of the environmental sciences to economic and social fields would become a yard-stick for measuring the state of a country's development".

"It would therefore seem that meteorology has, willy-nilly, got to expand, for meeting the increase demands imposed by our expanding activities. The question which is going to be decisive in this matter is whether the country will have sufficient men with the necessary expertise for carrying out the tasks that lie ahead.....Investment made now in this direction would start paying dividends during the Fifth and subsequent plan."

To our knowledge the following institutions are taking interest in the study of some of aspects of atmosphere.

- (i) India Meteorological Department, New Delhi.
- (ii) Indian Institute of Tropical Meteorology, Poona for research studies in pure and applied meteorology.
- (iii) Institute of Radio Physics, University of Calcutta for studies in ionosphere.
- (iv) Physical Research Laboratory, Ahmedabad.
- (v) Division of Radio Physics & Aeronomy, National Physical Laboratory, New Delhi for studies on ionosphere.
- (vi) Andhra University, Waltair, offer M.Sc. in Meteorology.

- (vii) Banaras Hindu University, Banaras gives training in Meteorology as part of their course in Geophysics.
- (viii) Environmental Physics Group, Department of Physics, University of Roorkee; The university also offer a course on Hydrometeorology.
- (ix) Gulmarg Research Observatory, Gulmarg.
- (x) Health Physics Division, Bhaba Atomic Research Centre for environmental radioactivity.
- (xi) Aeronautical Engineering Department of the Indian Institute of Science, Bangalore has set up a unit on meteorology.

Recently the National Commission for Agriculture in its first interim report has also recommended institution of Faculties of Agricultural Meteorology in Agricultural Universities in the country.

This shows that the work on Atmospheric sciences is being done on a very very limited scale but there has been considerable increase in recent years in the awareness of the need of education in Environmental sciences. This is also clearly borne out in a paper presented by Dr.P.Koteswaram, Director General of Observatories, on December 27, 1972, on '25 years of Atmospheric Sciences in India' before the Geophysical Research Board.

We have been given to understand that the Government of India would be requiring additional at least 120 trained meteorologists per year on the average for research and maintenance of services during the Fifth Plan period and the present turnout is hardly around 20. Obviously there would be a great scope in terms of employment potential for the students who shall be trained under our proposed programme in 'Environmental Physics'.

With the kind of training programme envisaged we can expect students coming from other countries like Afganistan, Thailand, Malaya, Nepal etc. The following excerpts from a technical Note No.132. T.P. 59 (1963) regarding the training of the meteorologists would be in order.

"In view of the advances being made in Meteorology and of the standard and diversity of the many services it must render to civilisation, there is, today no meteorological service worthy of name that can afford to do without university graduates."

"In the less developed countries already possessing a university equipped with a science faculty, the training

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of Class I meteorologists will be best assured by close and fruitful collaboration between the national university and the national meteorological service. Such collaboration is, we believe, essential. It is, in fact, practically impossible to teach synoptic meteorology and dynamic meteorology without having a surface and upper air synoptic station (sounding station), as well as weather bureau. Similarly, to teach meteorology one must have access to a station measuring radiation, ozone, atmospheric pollution, etc. as well as a meteorological instrument laboratory."

"There remains one last remark, which is not solely addressed to the less developed countries. Through UNESCO and the government of member countries of that organisation, WHO should draw the attention of those universities, where meteorology is not yet a subject for thorough study, to the serious gap they create in their curriculum of courses by omitting this science. In this connection, WHO should remind them not only of the extreme social and economic importance of meteorology but, above all, of its scientific importance both as observational science (having its own methods and employing the very latest electronic techniques) and as an experimental science (employing the most up-to-date electronic computers to solve not only research problems but also those of everyday routine). This serious gap in the curriculum of courses offered by a good number of universities may be filled in two ways."

Regarding the second observations made above, this observatory fulfils the most important prerequisites laid down above. These are pointed out in the following:-

1. The observatory is already running a class I meteorological station on its premises in collaboration with the India Meteorological Department.
2. A principle radiation station, the only of its kind in J & K, Himachal Pradesh, Punjab and Haryana, shall be set up and commissioned at the observatory this year with the help of the I.M.D.
3. The observatory is also taking steps to start monitoring of ozone on continuous basis in addition to many other meteorological and electric parameters already being recorded.
4. A radio-sonde station for the study of upper air meteorological elements is already functioning in Srinagar under the I.M.D.
5. A regional forecasting station is also expected to be set up by the I.M.D. in a year or two at Srinagar.

6. Discussions with the Director General, I.M.B. <sup>38</sup> and the Director, Indian Institute of Tropical Meteorology, Poona, two major national institutes engaged in the study of the atmosphere show that their active support for teaching and practical work would be forthcoming.

Considering various factors for smooth operation and implementation of the whole programme it would be highly desirable to have a base department of the observatory situated in the university campus, Srinagar. The teaching in the first year will be done mainly at Srinagar and during the second and final year students will be required to stay at the observatory for 8-10 weeks for intensive field training and writing project reports on specialised subjects of their choice.

The following is the proposed syllabus for a degree leading to M.Sc. (Environmental Physics). The syllabus is job-oriented in which special emphasis will be placed on applications in environmental while treating the fundamentals.

In proposing the outline of the syllabus we have kept in view model syllabus suggested by Professor J. Van Mieghem in his above referred Technical note No.56(1963) on "the problem of the professional training of meteorological persons of all grades in the less developed countries" submitted to the world Meteorological Organisation. We have also kept in view the discussion that we had with the Experts of India Meteorological Department, scientists working in various universities. Further we have also to keep in mind the courses of Reading for B.Sc. (Physics) (Chemistry) & (Mathematics) prescribed by the University of Kashmir at present to determine the type of students likely to be admitted to our programme of teaching. It is expected that the minimum qualifications for admission to the proposed course would be B.Sc. with Physics and Mathematics as compulsory subjects and any one of the following subjects: Chemistry, Geophysics, Astronomy, Meteorology.

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DRAFT SYLLABUS FOR 2-YEAR M.SC. COURSE IN  
ENVIRONMENTAL SCIENCES - BIOLOGICAL GROUP

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Besides what is given in the following pages, Introductory Courses are to be given in the following subjects depending upon the specific requirements of the candidate:

- (i) Botany, (ii) Zoology (iii) Geology and  
(iv) Geography.

Also each candidate will be required to do a special course in a narrow field of specialisation depending upon individual aptitude and availability of specialist as for e.g. Physiological Ecology of Plants, Physiological Ecology of Animals, Pollution, Ecosystem (specific type, terrestrial, freshwater or marine) analysis, Population Ecology, Soil Microbiology, Resource Studies, etc. The special course will be covered through lectures and practical work and also a PROJECT STUDY.

Practical work for all the other courses will be related to and based on the theory course and will be of the nature of Laboratory Exercises, field studies individually or in groups.

The entire course work including the Special Course and Project Study could be suitably adjusted in 4 Semesters.

CORE PAPERS

I. STATISTICS & BIOMETRICS: (half paper)

Populations and sampling, Probability and significance; Distribution - normal, binomial and poisson series; Mean and standard deviation; Standard Error; tests of significance; Chi-square and Contingency tables; Analysis of variance; Interactions; Correlation and Regression; Experimental designs; presentation of data, transformations; Computer techniques.

II. GEOMORPHOLOGY: (half Paper)

1. Geological aspects of continents, relief features, geomorphic cycles.
2. Lithosphere.
3. Underground water.

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4. Rivers and streams, lakes and swamps.
5. Glaciation and glacial topography.
6. Waves and currents.
7. Shore forms and shore processes of seas and lakes.
8. Wind.
9. Plains and plateaus; Islands and coral reefs.
10. Mountain formations of various types.
11. Volcanism and volcanoes.

III. SOIL SCIENCE:

1. Weathering of rocks and soil development under different climatic and topographic situations.
2. Mineralogical composition of soil.
3. Microbial population - types and their physiology and ecology.
4. Soil fauna, their ecology.
5. Association between plants and microorganisms.
6. Organic matter decomposition.
7. Nitrogen economy of soils; Soil nutrients and nutritional ecology.
8. Soil atmosphere.
9. Soil temperature
10. Soil water dynamics; practical control of soil moisture.
11. Soil structure and tilth.
12. Salinity, alkalinity, their reclamation.
13. Principles of soil management and fertility control; fertilizer management.
14. Soil pollution problems.

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IV. MICRO-METEOROLOGY:

1. Atmosphere at rest, constitution and physical properties.
2. Atmosphere in motion.
3. Heat transfer and problems of diffusion.
4. Radiation.
5. Temperature in the lower layers of atmosphere.
6. Wind structure near surface.
7. Diffusion and evaporation.
8. Tropical rain formation, tropical storms.
9. Problems of modern meteorology - weather modification and its implications, data acquisition and assimilation, water supply and air pollution.

V. ECOLOGY - COMMUNITY ORGANIZATION AND POPULATION ECOLOGY:

Structure, organization and development of a community-successional patterns and climax, ecotones; A comparative consideration of terrestrial and fresh water biomes; Principles of limnology-lotic and lentic environments and the dynamics of the two; a general consideration of the marine biome; cooperation and dis-operation, food and feeding relationships, reproduction and population, population structure, irruptions, catastrophes, cycles, niche segregation; Animal aggregations - organization of an insect society; single species populations - growth rate, population growth, density relationships population interaction - competition, cohabitation, allelopathy; Community classification - Braun Blanquet's system of rating; Casual factors of positive and negative associations between species, detection of natural groupings, correlation methods, hierarchial systems, pattern analysis.

VI. ECOLOGY - ABIOTIC ENVIRONEMNT & ECOLOGICAL GENETICS:

Ecological factors and factorial interaction; Rainfall patterns and plant distribution; Soil, light, temperature and fire as ecological factors - a detailed

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consideration. A general consideration of fresh and marine waters as a substratum for plant and animal growth. A general consideration of physiological ecology of plants and animals. A general consideration of ecological genetics and population dynamics. Adaptation of species and populations - plasticity and genecological concepts. Pollution ecology. Principles of radiation ecology.

#### VII. ECOSYSTEM ANALYSIS:

Structure and principal components; food chains, food webs; Energy flow; Bio-geochemical cycles, productivity; Terrestrial, Freshwater and Marine ecosystem analysis; Man-made ecosystems, agriculture, forestry, etc. Transfer of insecticides, pesticides, etc. in the ecosystem. Ecosystem balance and accounting. Primary production and secondary production in animal communities. Computer programming and Computer application.

#### VIII. BIOGEOGRAPHY:

Methods of age determination; Palaeo-ecology; a general consideration of the evolution of the biome; Floristic provinces and regions, Wulff's discontinuous areas and Good's provinces; Major Biomes of the world; Factors and elements of climate; Life form spectra, climatic zones and climate trends, altitudinal effects; Distribution of animals in geographic, abthymetric and geological reals; Zoogeographical regions; Transhemispheric movements; Criteria of distribution - extension and endemism; Continuity and areal dynamics; Origin and degrees of establishment; Biotic rhythms, migration, barriers.

#### IX. CONSERVATION OF RESOURCES:

1. Economics and conservation.
2. Soils - great soil groups, their utilization.
3. Soil conservation, principles and practices.
4. Water, for domestic and industrial use, water ways and their utilization, floods and flood control.
5. Irrigation and drainage, water conservation and erosion control, Hydro power and other uses.
6. Minerals, mineral fuels and their conservation.
7. Fuel and energy - oil chemicals, coal mining, classification, Coal conservation, fuel utilization, conservation by substitution; Corrosion control.



8. Wild-life conservation.
9. Fisheries.
10. Conservation of recreational resources.
11. Conservation of man.
12. Application of ecological principles in conservation.

X. ENVIRONMENTAL MANAGEMENT:

1. Our landscape and the changing society.
2. Urbanization in the world.
3. Changes in farming practices.
4. Urban and rural settlements.
5. Disturbed landscape of industry.
6. Land use classification, forest, grassland, wildlife and water.
7. Land use practises - rural and urban; Importance of open space in urban pattern.
8. Planning and future landscape.
9. Man-made and protected wild-life.
10. Adaptation in man, his limitations and potentialities.
11. Land and human welfare.
12. Technological aspects of environmental management.
13. Weather modification and its implications.

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OPTICAL PAPERS

I. LIMNOLOGY:

1. Water as an environment - Density, Viscosity, Surface tension, Incident solar radiation, Water movements.
2. Dissolved substances and their transportations - CO<sub>2</sub> cycle, dissolved oxygen, elemental nitrogen and methane; Iron and manganese; Nitrogen and phosphorus; other minerals, organic matter; Law of minimum.
3. Biotic communities - planktonic life, floatation in water; composition of plankton, spatial and temporal distribution; Bacteria, problems of production; Non-planktonic organisms, higher aquatic plants and animals.
4. Origin of lakes; redox potential of the sediments; stratified sediments; exchange between sediments and free water.
5. Bog Ecology.
6. Ecology of running waters.
7. Dynamics of Littoral community.
8. Ecological systems and energy transfer.
9. Interaction between biota and physico-chemical marine environment.

II. ENVIRONMENTAL ASPECTS OF FORESTRY:

Forestry and man; forest resources, trends and prospects; Forest conservancy; Silviculture practises, reproduction methods, thinning and pruning with particular reference to India; tolerance, differentiation and development of stands; Forest mensuration, economics, management, protection, utilisation and industries, Principles of forest Entomology - scope, biologic and taxonomic evaluation, population phenomena and population analysis, control measures. A general understanding of forest environment; Forest vegetational units and classification; Origin and development of forest communities.

III. HUMAN ECOLOGY

1. Numbers of people- factors governing and history of population growth, migration and present day distribution.
2. Population straction and projection.
3. Rural and urban settlement, alteration of natural vegetation.
4. Man's adaptation to climate, water and soil.
5. Man's use of earth - fishing, hunting, etc. agriculture and livestock.
6. Limits of the earth.
7. Environmental threats to man.
8. Optimum population and human biology.
9. Firth control, family planning and population control.
10. Socio-economic changes and their impact.
11. Religion, social attitudes, human behaviour including mental health, education, legal, system, business and industry.
12. Environmental and health, community health - present and future problems. Air, water, animals food, insects and human as carriers of disease, Waste disposal, Radiation hazards.
13. Food resources and production.
14. International scene - development and environment; environmental quality and geoaesthetics; Man and industrial society.

IV. RESOURCE MANAGEMENT

1. Theory of resource management - principles of ecology, population community, energetics, community organisation and stabilisation.
2. Management theories derived from ecology - maximization of production, pest control, land management policies.

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3. Impact of environment and man on population.
4. Ecological process in resource management  
predation, biological wave phenomena, epidemic  
and epizootic waves etc.
5. Surveying aerial photointerpretation,  
monitoring, remote sensing.
6. Principles of system analysis, modelling,  
computer science & simulation.
7. Food resource management from land and the sea.
8. Mineral resource management from land and the sea.
9. Energy resources management.

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B.Sc. (Previous) Environmental Physics

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There shall be four papers in theory and two in practicals. Each theory paper shall be based on 90 - 100 lecture hours.

Paper I                      Mathematical Methods

- (i) Vector Analysis, 20, (iii) Change of variable, Fourier Series, Integrals and transforms, 13. (iii) Ordinary differential equations, Bessel functions, Legendre Functions, numerical methods, 15. (iv) Partial differential equations - simple solution of Laplace's and Poisson's equation with special applications to atmosphere and heat conduction etc. 20.
- (v) Elements of complex variable and special functions. 14.
- (vi) Statistics; theory of error; frequency distributions; least squares and chi-square tests, co-rrrelation and regression coefficients, curve fittings, interpolation and extra-polations, 25. (viii) Hydrodynamics, 15.

Paper II                      Classical Physics - Part 1

- (a) Classical Mechanics, 30
- (b) Classical statistical mechanics, thermodynamics and radiation, 40 - 45.
- (c) Relativity, 30.

Paper III                      Classical Physics - Part II

- (a) Electrostatics, 20.
- (b) Magnetostatics, current Electricity, 20.
- (c) Electromagnetic waves, their propagation etc. 10
- (d) Atomic spectra, Bohr's theory, Sommerfeld modification, Zeeman effect, Stark effect; etc. etc. 20-25.
- (e) Molecular spectra.
- (f) Structure of atom, origin of quantum theory; Schrodinger's equation of and principle of uncertainty etc.

Paper IV                      Electronics & Electronic Instrumentation

- (a) Thermionic emission, field emission, photo-emission; vacuum tubes; gas diodes & thyratrons; noise in vacuum tube etc.
- (b) Semi-conductor phenomena;
- (c) voltage amplifiers, power amplifiers, oscillators, rectifiers; electrometers, operational amplifiers; cathode follower;
- (d) elements of pulse circuitry; switching circuits;
- (d) principles of receiver & transmitter; soundings;

- (19)
- (f) measurements of small currents; small voltages; impedance measurement; P.H. meter; electronic measurement of humidity, temperature, wind direction etc.
  - (g) semi-conductor devices; metal semi-conductor contacts; ohmic contact; space charges region, junction capacitance; junction breakdown, point contact; field effect transistors; basic characteristics and operation of thermistors; thermo-electric devices.
  - (h) principles of stimulated emission devices; microwave devices optical devices.
  - (i) analog computer; analog adders; integrators, digital computer, binary & decimal systems;
  - (j) Recorders; galvanometric type; potentiometric type and eschillographic.

Practicals: Paper V

Practicals illustrating fundamental of Physics; a few of the experiments are listed below:

- (1) Head conduction
- (2) Stefan's constant
- (3) measurement of electronic charge
- (4) measurement of c/m of an electron
- (5) ionisation potentials
- (6) photoelectric effect
- (7) use of spectrographs
- (8) etc. etc..

Paper VI                      Practicals

Experiments illustrating the applications of fundamentals:

- (1) Use of ballistic galvanometer
- (2) use of cathode ray oscilloscope
- (3) characteristics of triode; tetrode, pentode and gas tubes.
- (4) measurements of self & mutual inductance; capacitances and high resistances.
- (5) use of v.t.v.s.
- (6) measurement of space charge
- (7) characteristics of transistors
- (8) dielectric measurements
- (9) meteorological observations; temperature, pressure, R.N. etc.

M.Sc. (Final) Environmental Physics

There shall be three papers in theory based on 100 lecture hours each; two in practicals, one paper in practicals would

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be a project report in the form of a monograph to be prepared by the student on a subject dealing with a current problem being pursued at the observatory.

Paper VII Modern Physics or Contemporary Physics

- (a) Schrodinger's equation (wave mechanism and its applications to Hydrogen atom; helium atom; perturbation theory etc. 30.
- (b) Atomic Physics; photoelectric effect; Compton effect; Pauli's exclusion principle, periodic table; 10.
- (c) Nuclear Physics, isotopes, mass spectroscopy; radio-activity (artificial and natural); alpha, beta & gamma rays and spectroscopy; theory of alpha decay and beta decay; moshaur effect; shell model; nuclear force; Nuclear reactions; health physics. 40-45.
- (d) Nuclear instruments; cloud chamber; ion chamber; photo-multiplier; spark chambers; G.M. tubes etc. cosmic rays; elementary particles. 15-20.

Paper VIII Physics of the Air

- (a) Composition, temperature and moisture in the atmosphere 5
- (b) thermodynamics of the atmosphere 17
- (c) radiation in the atmosphere 10
- (d) cloud physics 10
- (e) atmospheric electricity 30-35 30-35
- (f) agricultural meteorology 15
- (g) air pollution 6
- (h) meteorological instruments 6

Paper IX Atmospheric Dynamics & Synoptic Meteorology

- (a) dynamics of air motion including turbulence 30
- (b) monsoons and general circulation 20
- (c) tropical meteorology 15
- (d) air masses and fronts 15
- (e) climatology of India 20



Paper X Project Report:

Project report on any of the following:

- (a) Atmospheric Electricity
- (b) Any one subject listed under Paper VIII & IX.
- (c) Infra-red spectroscopy
- (d) Radioactivity.
- (e) Meteorological Instrumentation

Basic equipment and facilities for writing a monograph on the above subjects already exist at the observatory.

Paper XI Practicals:

Some of the typical experiments are listed below:

A. Electronics

- 1. Construction and use of C.R.O scillograph; radioscude; v.t.v.m. etc.
- 2. valve electrometers
- 3. voltage amplifiers; operational amplifiers, cathode follower
- 4. use of thermistors and thermocouples and measurement of temperatures in lab; and natural environment;
- 5. use of laser
- 6. microwave devices
- 7. construction of power supplies etc.

B. Meteorological:

- 1. use of radar in meteorology
- 2. measurements of electric potential gradients by different techniques;
- 3. measurements of polar conductivities of the atmosphere
- 4. measurements of space charge
- 5. measurements of air-earth current
- 6. computation in synoptic meteorology by charts etc.
- 7. measurements of thermoelectric power of ice
- 8. measurements of natural radioactivity
- 9. lightning counter
- 10. cloud identification
- 11. experimental arrangement for demonstrating the stable and natural equilibrium of the atmosphere.
- 12. synoptic analysis
- 13. use and maintenance of field instruments.
- 14. use of radio-sound equipment and data analysis.

C. Contemporary Physics

- 1. use of G.M. counters.
- 2. use of and utilisation spectrometers and photo-multipliers
- 3. measurements in radioactivity and study of alpha, beta and gamma rays
- 4. use and construction of infra-red spectrograph



- 5. use of cloud chamber
- 6. use of ionisation chamber
- 7. coincidence techniques in G.M. tubes
- 8. etc. etc.

Note: After the introduction of honours courses in the University of Kashmir it is expected that the general level of students seeking admission to our teaching programme would become better and therefore it would be possible for us to improve upon our syllabi so as to include certain topics on Geophysics and Biophysics etc.

Books Recommended

Paper I

- 1. Applied mathematics for Engineers and Physicists; L.A.Pipes
- 2. Mathematics for Physics and Chemistry; Murphy & Marnanau
- 3. Higher Mathematics: Red Heffer & Sokolnikoff
- 4. Partial Bifferantial equations by Sommerfeld
- 5. Differential Calculus by Kaplan.

Paper II

- 1. Classical machanics by Symon
- 2. Classical mechanics by Golstein
- 3. Classical mechanics by Marrion
- 4. Theoretical Physics by Joas and Freeman
- 5. Theory of Belativity by Bergaman
- 6. Thermodynamics by Bajonski
- 7. Mathematics for Physics and Chemistry : Murphy and Margenau
- 8. Beat by M.N. Saha

Paper III

Electrical and Magnctism by Philips and Panofsky

- 2. Theoretical Physics by Joas
- 3. Atomic Spectra by White
- 4. Molecular Spectra by Merzberg
- 5. Modern Physics by Eisberg
- 6. Nuclear Physics by Ualliday

Paper IV

- 1. Radio Electronics by Sesley
- 2. Applied Electronics by Gray
- 3. Electronic Circuits by Angelo
- 4. Radio Engineers by Glasgow
- 5. Electronic Instrumentation by Pronsky
- 6. Electronic measurements by Torman and Petit

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Paper VI

1. Quantum mechanics by Schiff
2. Modern Physics by Eisberg
3. Nuclear Physics by Green
4. Nuclear Physics by Burhop
5. Cosmic Rays by Rossi
6. Elementary Particle Physics by Marshak and Sudarshan

Paper VI

1. Physics of the Air : Humphreys
2. Physical and Dynamical meteorology : Haltner and Martin
3. Physical Meteorology by Longley
4. Meteorology by Patterson
5. Physics of clouds by Mason
6. Thermodynamics of clouds by Dufour & Defay
7. Physics of clouds by Bayers
8. Atmospheric Electricity by A. Chalmers
9. Atmospheric Electricity by N. Isreal
10. Air pollution by Stern
11. Micrometeorology.

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Annexure-III to Item No.

Copy of letter No. F.8-12/74.U.I dated 26th December, 1974 from Shri R.S. Chitkara, Director (U) Government of India, Ministry of Education and Social Welfare, Shastri Bhawan, New Delhi addressed to Shri R.K. Chhabra, Secretary University Grants Commission, New Delhi.

.....

I am enclosing a copy of a letter dated 21st December, 1974 (Appendix) from Governor, Jammu and Kashmir to Education Minister regarding financial assistance to the Gulmarg Research Observatory of Srinagar University.

I shall be grateful if the proposal for special financial assistance to the University to continue the activities of the Observatory is considered by the Commission.

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Copy of letter dated 21st December, 1974 from Shri L.K.Jha, Governor of Jammu & Kashmir, Camp J. & K Guest House, New Delhi addressed to Prof. Nurul Hasan, Minister of Education, Govt. of India, New Delhi.

.....

This is about the Research Centre at Gulmarg which I spoke to you about.

The reason why the future of this institution has suddenly become a matter of concern is a narrow financial one. It has been sustained through two plan periods entirely by grants from the U.G.C. without any condition that it will become a responsibility of the University (and therefore of the State Government) to maintain thereafter. The UGC has now indicated that it will no longer finance the running of this institution and neither the University of Kashmir nor the J & K Government are in a position to allocate the requisite funds for the purpose.

The re-examination of the future of the laboratory which has been occasioned by the financial problem which has recently arisen, has, very rightly in my opinion, raised some fundamental questions about its utility and advantages. The enclosed copy of a note which is going before the Syndicate of the University will show the different views expressed by different people on the subject. On view has been that it can do something very useful from a meteorological angle which will also be of benefit and use to the Airforce. The possibility of the Bhabha Atomic Research Centre making use of it was also considered and seems to have been turned down. The suggestion that the laboratory in Gulmarg should be closed and such use as the University of Kashmir may make of it in Srinagar would be the best answer has also been put forward. I myself had suggested to the UGC team which came out to the State a few weeks ago that if the Centre has any importance it is much more on the national plane than from the point of view of the State Government or the Kashmir University. I had therefore put forward the tentative view that the Jawaharlal Nehru University rather than the Kashmir University should take it over. Finally the question whether the space Commission could utilise it for any of its purposes also needs to be considered.

In bringing the matter to your personal attention my intention was that it should be looked at not from a narrow financial angle to discover who could foot the bill but from the wider angle of considering its utility and scope and arranging that such potential as it has is put to the best possible use from the national point of view.

I hope it will be possible for you to have this matter examined. The Kashmir University itself is facing as you know an acute financial crisis on account of the library building and we just not have the financial resources and possibly even the other resources necessary to ensure that the laboratory is put to the best possible use.

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Enclosure.

(55)

The University of Kashmir, Srinagar.

Date and Date: ... Thursday,  
December 19, 1974

Time: ... 11 a.m.

Venue : ... Office of the  
Additional Chief  
Secretary, Jammu.

Agenda for the special meeting of the Syndicate.

To consider the following note relating to the Gulmarg Research Observatory:-

The Gulmarg Research Observatory which was established jointly by the Aligarh Muslim University and the erstwhile Jammu and Kashmir University in 1951 started functioning with a token grant of Rs. 8000/- per annum provided by the former University. The University of Jammu and Kashmir paid for the rent of the hutments housing the observatory besides the pay of one Chowkidar. The following fields of work were assigned to the Observatory:-

- a) To carry out research programmes in Physical and Biological Sciences connected with high altitude ;
- b) To impart training to young scientists in high altitude research leading to the degree of Ph.D.;
- c) To help in teaching of Post-graduate classes in the University departments of Physics and in the departments of other Govt. colleges in Srinagar ; and
- d) To provide basic facilities to interested research workers in various Universities and other institutions.

From 1956 onwards the UGC on the basis of the recommendations of its visiting committees, provided substantial assistance towards the Observatory both for its recurring and non-recurring needs. It was in the III Plan period that the Commission started financing the Observatory on cent percent plan to plan basis except for the rent of the hutments, and the pay of one Chowkidar which continued to be the liability of this University. This position prevailed during the IV Plan Period also.

Even with the termination of the IV Plan period on 31st March, 1974 when the recurring and non-recurring assistance of the Commission towards various IV Plan Schemes ceased, the expenditure of the Observatory continued to be borne on the Plan budget and the Commission was approached to provide funds as

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usual for this purpose, including the salary of the staff. The Commission vide their letter dated July 22, 1974 intimated that it would not provide any financial assistance towards the sanctioned posts of the Observatory during the V Plan period which would have to be maintained by the University itself on permanent basis.

The strength of the staff teaching and non-teaching, as sanctioned by the Commission till the end of IV Plan is as follows:-

(a) Teaching and Administrative Staff.

Professor 1100-50-1300-60-1600	1	
Reader 700-50-1250	1	Vacant
Scientific Officers 400-40-800-EB-50-950	3	1 Vacant
Lecturer 400-40-800-EB-50-950	1	Vacant

(b) Other Staff.

Mistry 280-10-370-EB-15-520	1	
Head Assistant-cum-Accountant 280-10-370-EB-15-520	1	
Laboratory Assistant-cum-Store Keeper. 220-8-260-10-300-13-430	1	
Mechanic 300-15-460-EB-20-560	1	
Electrician 280-10-370-EB-15-520	1	
Driver. 220-8-260-10-300-13-430	1	
Orderly. 170-2-186-3-210-4-230	1	
Laboratory Attendants. 170-2-186-3-210-4-230-	3	
Sweeper. 170-2-186-3-210-4-230	1	

The budget estimates for the year 1974-75 for running <sup>(57)</sup>the Observatory work out as under:-

Salaries	...	Rs. 1.34 lakhs
Other recurring items of committed nature.	...	Rs. 0.55 lakhs
		<hr/>
		Rs. 1.89 lakhs
		<hr/>

In respect of the Post-graduate departments and other schemes that were approved by the University Grants Commission during the various Plan periods, the University had given a commitment with the concurrence of the Govt. to bear the expenditure on the continuance of these departments and schemes after the expiry of the respective plans. There was no such commitment in the case of Gulmarg Research Observatory and in fact none was ever demanded by the University Grants Commission. The Observatory has all along been running on Plan to Plan basis with cent percent grant from the University Grants Commission except for the pay of one Chowkidar and the rent of hutments.

In this connection it may be submitted that the future set up of the Observatory is yet to be determined. The Visiting Committee of the UGC last year made certain recommendations in this behalf. While these recommendations had yet to come up for consideration before the appropriate authorities of the University, the Syndicate appointed a committee under the Chairmanship of Shri R.C. Raina, Addl. Chief Secretary to evaluate the functioning of the Observatory including a thorough examination of the schemes now being carried out there and those proposed to be undertaken in future and their academic impact. A detailed note was presented to the committee in this behalf which is given in Annexure-I. The Committee had more than one sitting and it invited Dr. P.K. Iyengar, Director, Physics Group, Bhabha Atomic Research Centre, Bombay for advice. Dr. Iyengar after visiting the Observatory and having detailed discussion with the members of the Committee in September, 1974 presented a report which is given in Annexure-II.

The financial adviser was requested to convey his opinion regarding the financial aspect of the matter. The opinion conveyed by him is reproduced below:-

"Closure of the Gulmarg Research Observatory is a matter which the University Syndicate and the Council will have to decide after Mr. R.C. Raina submits his report. I am sure Mr. Raina will take note of Dr. P.K. Iyengar's recommendations also after the latter visits Srinagar. So far as the University finances are concerned, there is absolutely no possibility of accommodating the additional expenditure of Rs.1.89 lakhs, which will be needed in order to continue the Observatory. The University may

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however, see if it is possible to divert funds from other on going projects.

The case may, therefore, be submitted to the University Syndicate and the Council for order in light of the advice recorded above".

There is a proposal to introduce an additional paper or papers on Atmospheric/Environmental Physics with the existing M.Sc. Physics Course and utilize the services of the Professor and Scientific Officer of the Observatory in the Post-graduate Department of Physics, and shift the equipment of the Observatory to that Department. The Dean, Faculty of Science has been requested to work out the details of this proposal in consultation with the Head of the Department of Physics and the Professor Incharge of the Observatory. The Dean is presenting a note on this subject which will be circulated separately.

The reports of the various Visiting Committees of the UGC mentioned in the note at Annexure I will be place on the Table.

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A note on Gulmarg Research Observatory.

The University Grants Commission at the request of the Ex-Chancellor who had made the following observations about the working of the Observatory, appointed an expert committee to review (a) the work of the Gulmarg Research Observatory (b) its organisational aspect and (c) its relation to the teaching and research undertaken in the University Post-graduate Departments at Srinagar:-

Observations of the Chancellor.

"It seems that the Laboratory has been in a state of suspended animation in the last half a dozen years or more. It had a useful project of the study of cosmic rays distribution (with a Geiger-Muller counter telescope) but its possibilities were nearly ex-hausted about a decade ago and in the absence of any active involvement of the Honorary Director no new direction was given to the research programmes at the Laboratory. Since Dr. Khera and the other members of the staff did not get any fresh opportunities to get acquainted with later techniques and the research that was going on elsewhere in this field they have naturally become stagnant in their research output. I am told that even with regard to a useful research programme there is no clear idea as to what the laboratory can take up. Nor is there any competent appraisal about the capability of the research staff to take up new projects. In brief a fresh comprehensive appraisal is required about the need of continuing this Laboratory and its working. Merely getting a full time Professor-Director will just not do. It is also equally necessary to establish its future relationship with the University Administration and its Physics Department in particular so that the resources of personnel and equipment of the two organizations can be put to the best possible use in developing the Physics Faculty of the University. I am not quite sure that the device of coordinating Committee can really prove effective in securing cooperation of the two staffs with a view to promote both working and research of the Faculty of Physics".

The expert committee visited Srinagar and Gulmarg in May, 1971 and held discussions with the Vice-Chancellor, the Heads of the Science Departments, the Pro-Chancellor and the Chancellor. The Committee submitted its report recommending that:-

- a) the buildings housing the observatory be transferred by the State Government to the University, the total area required for the efficient working of the Observatory

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being 4-5 acres of land with the present laboratories as the nucleus. The University will be able to maintain and develop the laboratories with the financial assistance from the University Grants Commission only when clear title and possession of the laboratories is with the University ;

- b) the Gulmarg Research Observatory may be named as the Unit of High Altitude Studies in the Faculty of Science of the University of Kashmir being multi-disciplinary in nature and having a faculty seconded to work at Gulmarg from different Departments, depending upon their research interests. The Unit could be placed under the administrative control of the Dean Faculty of Science or the Vice-Chancellor in the beginning stages. The Unit must have a student population and should also participate in teaching activities of the Faculty of Science. It could offer specific courses for the M.Sc. students as part of the requirements of the M.Sc. Degree in Physics and Biological Science ;
- c) the Gulmarg Research Observatory may be developed into an inter-disciplinary set up to provide for high altitude studies in Physical and Biological Sciences ;
- d) with the proper development of the Laboratory as a teaching cum-research Unit, the facilities available could be utilised by the other Universities of the country, and
- e) the University of Kashmir may appoint a representative Scientific committee to help draw up suitable programmes of Scientific activities both teaching and research. This programme and its successful implementation would help in evolving long range Scientific activities for future years and cooperation with various Universities in the Country.

While these recommendations were yet to come up before the Board of Management for consideration, the University Grants Commission appointed another expert committee. (This Committee visited the Observatory in September, 1972).

The Board of Management of the Gulmarg Research Observatory met in May 1972 to consider the report of the earlier committee and after discussing the matter thoroughly inter-alia made the following recommendations:-

1. that the Observatory may continue to be named as the "Gulmarg Research Observatory".
2. that while retaining its national character in order to attract scientists and scholars from other parts of the country to pursue high altitude studies, the Observatory should for the purpose of its functioning be treated as

- a unit in the Faculty of Science, University of Kashmir extending the jurisdiction of all the academic and executive authorities of the University to that Unit as in the case of other departments of the University ;
- 3) that while agreeing in principle to the recommendations of the Expert Committee to make the Observatory as teaching-cum-research centre, special elective papers be introduced in the courses of the M.Sc. Physics, Botany and Zoology relating to high altitude studies, The courses could be taught to the students concerned in the respective Departments and by utilizing the facilities and staff at the Gulmarg Research Observatory ;
  - 4) that suitable allowance be paid to students taking the courses offered at Gulmarg for the duration of the course. The possibility of providing for their transportation may also be considered ;
  - 5) that the University Grants Commission be requested to arrange an early meeting of the Expert Committee already appointed by it to draw up the Programmes to be taken up in the Observatory over the next 4 or 5 years and that specialists in the concerned fields proposed to be taken up in the Observatory namely, Spectroscopy, Cosmic Rays, Atmospheric Physics, Botany, Zoology and Environmental Sciences be co-opted ; and
  - 6) that until proper legislation for the implementation of the recommendation made at item (2) above was made, the Board of Management would continue to function and that it would meet soon after the report of the Expert Committee was available.

It is pertinent to add that the Laboratory has since been declared as an independent Unit in the Faculty of Science extending to it the jurisdiction of all the academic and executive authorities of the University as in the case of other Departments.

The report of the visiting committee of the University Grants Commission which inspected the observatory in September, 1972 was examined by a Select Committee comprising Heads of Science Departments of the University and Dr. M.K.Khera, Prof. Incharge of the Observatory at a meeting held on 7.7.73. The Select Committee made the following recommendations:

- (i) That an M.Sc. course on "Environmental Physics" be started as soon as possible at the University Campus, Srinagar ; (while discussing this item Dr. M.K.Khera was requested to prepare a note on the financial implications

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involved in implementing the introduction of the course taking into account any additional staff and equipment required, and construction of a base department at the Campus).

- (ii) That the introduction of a course on Environmental Biology be post-poned for the time being. The matter would be considered again at a later date in the light of experience and success of the course on "Environmental Physics".

Before the recommendations could be placed before the academic and executive authorities of the University, the Syndicate at its meeting held on 29.9.1973 appointed a committee comprising the following members to evaluate the functioning of the Gulmarg Research Observatory including a thorough examination of the schemes now being carried out and those proposed to be undertaken in future:-

1. Shri R.C. Raina, Additional Chief Secretary to Govt.;
2. Dr. S.N.Ahmad Shah, Principal, Govt. Medical College, Srinagar ,
3. Prof. Jan Mohammad, Head of the Deptt.of Mathematics,
4. Dr. Z.U. Ahmad; Principal, Regional Engg. College, Srinagar;
5. Dr. N.N.Raina, Head of the Deptt. of Physics ;
6. Dr. Yog Prakash, Head of the Deptt. of Physics, University of Jammu ; and
7. the Registrar.

A new development has since taken place in respect of the Observatory. The University Grants Commission which financed the Observatory on plan to plan cent percent basis, except for the pay of one chowkidar and the rent of the huts, intimated on 22.7.1974 that it would not provide any financial assistance during the 5th Plan for the posts sanctioned and filled up to the end of the 4th Plan period, adding that such posts will have to be maintained on permanent basis by the University. The University has therefore, to decide about the maintenance of the Observatory from its own grants ; the liability on account of salaries and other recurring items of committed nature being Rs. 1.89 lakhs during the current financial year. In this connection it is pertinent to add that unlike other Post-graduate Departments that were approved by the University Grants Commission, during the various plan periods for which the University was committed, with the concurrence of the Government to bear the expenditure on their continuance after the expiry of the respective plans, there has been no such commitment in the case of the Gulmarg Research Observatory and in fact none was demanded by the Commission. If it is decided to continue the Observatory the Government will have to sanction an additional grant of Rs.1.89 lakhs during the current year and given an assurance for maintenance of the Observatory in future.

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Report of Dr. P.K. Iyengar, Director, Bhabha Atomic Research Committee, Physics Group.

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At the invitation of the University of Kashmir, I visited the Gulmarg Research Observatory on the 1st of September, 1974 and attend the meeting of the committee constituted by the Syndicate on 2nd of September, at Srinagar. The following are my observations and recommendations regarding the functioning and future use of the Gulmarg Research Observatory.

1. The Gulmarg Research Observatory has a history of its own. Having been formed with the enthusiastic and expert guidance of Prof. P.S. Gill who was an active cosmic ray Physicist and who was Professor on the University of Aligarh at a time when cosmic rays research was at its peak, this Observatory was used for cosmic ray measurements. This subject has now faded into the background and hence it is natural that this activity has also been would up at Gulmarg.
2. With the resignation of Prof. P.S. Gill as the Honorary Director of the Observatory and due to the changing emphasis on high altitude research the facilities created at the Gulmarg Observatory for cosmic ray studies is no longer of any value. Naturally the existing staff have tried to take up research in other areas. In this I must compliment the valient efforts of Mr. Raina in particular, who has tried to take up research in other areas. In this I must compliment the valient efforts of Mr. Raina in particular, who has tried to do the maximum under the circumstances and has completed a project for his Ph.D. thesis.
3. During the last 6 or 7 years, the Laboratory has been virtually stagnant. High altitude research is an area of applied research demanding certain metication from a body of experts in basic disciplines. Except for very few problems of astrophysical interest there are not many experiments that could be classified as basis research. In order to sustain a programme in high altitude research, it requires much more than a mere observation post at Gulmarg. Since the organisation of this Observatory has always been regarded as something separate from the normal University activities, specially funded by U.G.C., it has not enjoyed the back-up of any strong scientific community at the University level or in the national laboratories level.
4. The existence of a similar observatory with much better infrastructure and back- up of a larger scientific organization puts this laboratory in sharp contrast with that of the Gulmarg Laboratory now run by BARC. It is obvious that the cost of running a laboratory in a place like Gulmarg with severe winter conditions in indeed expensive. For this reason it is impossible

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to build up all the necessary technical infra-structure for a laboratory of this kind at Gulmarg itself. Any attempt to do this will only increase the cost and complicate the organization of such an observatory. For this reason also be the Gulmarg Research Observatory, to my mind, is not available organization.

5. The fact that there have been two expert committees appointed during the last 5 years to go into the working of this laboratory and make recommendations inspite of the governing board with expert scientific members itself proves that the laboratory is in bad shaps and is unable to have an independent existence consistent with the efforts and the money that has been put in. The first U.G.C. committee has merely dealt with certain administrative aspect and suggested that in the changed circumstances of Prof. Gill leaving the organization, it should form part of the University of Kashmir so that it can elicit support and academic interaction from other departments of the University. It is obvious now that this has not happened inspite of the Observatory coming directly under the administrative control of the University. Unfortunately the Observatory has been recognised as a separate entity and placed under the Dean of Faculty of Science. This has not helped in fostering any interaction between the science disciplines and the Observatory. . . . .

6. At the meeting held on 2nd September, the recommendations of the last expert committee of the UGC were placed before the members. I have gone through these in detail, for this is the recommendations of an expert committee which was to suggest academic programmes rather than deal with administrative problems. I have my own doubts whether the experts in that committee would have gone into details of prescribing a syllabus/course in Environmental Physics or Biology without suggesting any specific research programmes for the Observatory. Since I have know at least one of the members closely I have checked with him to ensure that at least he has not seen this report in the present form nor are they his recommendations. However, it is also worth recalling that in the covering note from the U.G.C. it had been mentioned that it was only a note prepared by the U.G.C. incorporating some of the suggestions of the expert committee. The note also called for detailed proposal from the University to start a programme of M.Sc. course in Environmental Sciences.

I have the strongest objection to this report of the UGC which I believe is not a report of the expert committee. In this report considerable effort has been made to justify starting a programme in meteorology in the context of national needs. However, it fails to bring out whether the Gulmarg Observatory and the present staff have the requisite experience in teaching as well as research to start a programme in meteorology. Several reports are quoted to justify the need for expertise in Environmental Physics and Meteorology. But it is my view that it is only after one has strengthened the teaching of post graduate classes in Physics and established expertise in several

areas of instrumentation like electronics, spectroscopy, certain aspects of chemistry etc. there, one can start a programme in environmental sciences. I am also not e convinced that the existence of the Observatory at Gulmarg with the present facilities will any way help much in teaching meteorology in the University. The laboratory facilities needed to start a department of meteorology today is vastly different from what exists in the University of Kashmir in the Observatory. Couple of experiments in atmospheric electricity that are being conducted in Gulmarg are not sufficient justification to start a department of meteorology. Even though these are my personal opinion, I would strongly urge that this matter of starting a new department should be looked at by a committee of experts including members of the Indian Meteorological Department and the Institute of Tropical Meteorology in Bona as that they could given the correct guidance to the University on venturing on such a course.

7. The problem of the Gulmarg Observatory one of sub-critical size-lack of motivation for high altitude research and the lack of infrastructure of a well developed supporting laboratory. It is in conceivable that all these can be built up in a short time with the limited financial resources that are being placed at the disposal of the University specifically for this laboratory. In the national contest the existence of a similar observatory a couple of kilometres away with a dequate facilities only makes this a redundant organization to achieve a ny national aims. The Observatory run by BARC is also open to all institutions specially to the Kashmir University. It has been repeatedly declared by the Director, Bhabha Atomic Research Centre that the new laboratories being set up at Srinagar and the Gulmarg laboratory of BARC are fully at the disposal of the scientists of the University of Kashmir and elsewhere for conducting any specialized experiments.

8. Under these circumstances if one were to take a dispassionate view on the future of this laboratory, it is my firm opinion that this laboratory has served its purpose at a time when cosmic ray research was at its peak. High altitude research is an inter disciplinary activity which calls for a larger body of academic people, greater technical support and use of new techniques all of which are not available at present at Srinagar or Gulmarg. In view of this it is better to close down this laboratory at the present stage. The equipment that is available in the laboratory is not much and could be used in teaching in the Physics Department of the University of Kashmir. At the present stage the number of staff involved are very few. In fact there is only one permanent academic member viz. Dr. Khera, who is also designated Director of the Observatory. With the cooperation of UGC some place can be found to accommodate Prof. Khera. The research Officer Mr. Raina could also be accommodated in the University for teaching of Physics and continuing Research in a way in the area in which he has specialized. The facilities at Gulmarg in the BARC set up could be made available to him.

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The question of opening a new department of Meteorology should be looked at as a separate problem. A committee of experts may be nominated to give their opinion on the desirability, on the intra-structure required like staff and laboratory and the investment required to start such a department. Perhaps it would not be out of place to mention that what is required in the Kashmir University in the Physics Department is specialisation in other areas of basic Physics and strengthening of its teaching in basic physics and electronics rather than venturing on very highly specialized inter-disciplinary areas like Environmental Sciences.

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Extract from the Report of the Committee which visited Kashmir University to assess the needs of the University for the Fifth Plan period.  
Gulmarg Research Observatory

The second major problem which the University is finding difficult - and also seems unwilling to handle - is with regard to the Gulmarg Research Observatory. (For details of the organisation and working of the Observatory see Appendix). The Gulmarg Research Laboratory was started in 1954 as a joint venture of the Universities of Aligarh and Jammu & Kashmir, both of which had made some token contribution towards its expenditure while the main burden of its expenditure was taken up by the University Grants Commission. The University Grants Commission which has supported the institution for the last twenty years on a 100% basis, naturally, would not be able to continue doing so. In view of the refusal of the State Government to support that functioning of the Institute any longer and the lack of enthusiasm on the part of the University to have a separate department of Atmospheric Physics and Meteorology, for which this Institute could be well suited, or even have one paper in their present courses for the M.Sc. Physics, the Visiting Committee spent one full day at Gulmarg, visited the Gulmarg Research Observatory under the administrative control of the University of Kashmir at Srinagar, and the Bhabha Atomic Research Institute, which is also located at Gulmarg, and had detailed discussions with the Directors of the two institutions where possible. However, they came to the conclusion that this was not possible. The two institutions were carrying on different kinds of work. Even the very location of the two institutions in Gulmarg indicated the difference between their research activities. While the Bhabha Atomic Research Institute is located deep in the Gulmarg Valley, surrounded by forests, and carries on its researches primarily in ionosphere, the Gulmarg Research Laboratory is located on the crest of the bowl, to which the valley could be compared, in an atmosphere comparatively free from pollution, where it carries on its experiments in atmospheric physics and biology and meteorology. If a merger of the two institutes is not feasible, and it is not regarded as desirable to wind up the Gulmarg Research Laboratory after 20 years of fairly creditable work and allow its equipment of Rs. 15 or 16 lakhs to be wasted, the only alternative would be to bring down the major equipment of the laboratory to Srinagar, attach it to the Department of Physics for the time being, where a specialised course in Atmospheric Physics and Meteorology could be started as a part of the requirements of the M.Sc. degree in Physics, and later on a full-fledged course leading to the degree of M.Sc. in Atmospheric Physics and Meteorology could be introduced. Since no University in India is at present involved in the teaching of a full-fledged M.Sc. course in Atmospheric Physics and Meteorology, the committee suggests that the University may appoint a team of experts in

with a  
 view to  
 finding  
 whether  
 a merger  
 of the two  
 institutions

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Atmospheric Physics and Meteorology (and not from the Atomic Research, as was done last time) in order to examine the possibility of an independent course leading to the M.Sc. degree, and also consult the Meteorological Department of the Government of India to find out the possibilities of gainful employment for those who obtained such a degree.

So far as the starting of a specialised course in Atmospheric Physics and Meteorology within the existing framework for the M.Sc. degree in Physics is concerned, no additional teaching staff is required. But if it is decided after expert advice that the starting of a separate M.Sc. degree in Atmospheric Physics and Meteorology is feasible, it would involve the appointment of additional staff, for which the University could approach the U.G.C. later. The Committee would in any case emphasise that the State Govt. or the University of Kashmir should no longer continue with their present attitude of indifference to the Gulmarg Research Laboratory, which could, under expert advice, perhaps be made the nucleus of major research work. While the University Grants Commission could support the development plans of the institution (in case it would found advisable to start a full-fledged M.Sc. degree in Atmospheric Physics and Meteorology) the State Government will have to take up the responsibility for meeting the existing expenditure on the laboratory.

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The Gulmarg Research Laboratory, which started in 1954, has received assistance from the University Grants Commission from 1956 onwards on the basis of the recommendations made by the Visiting Committee during the Second And Third Plan periods. During this period, the work of the Observatory has been mainly concentrated on the High Energy Physics, particularly the studies of Cosmic Rays and Recording of Occurances of Radio-active fall-out in the atmosphere. The laboratory received considerable assistance for purchase of major items of scientific equipment under the India Wheat Loan Programme during the Second Plan period.

The laboratory until 1965 was jointly managed by the Aligarh Muslim University and the Jammu & Kashmir University both of which made some token contributions towards the expenditure in addition to the funds provided by the University Grants Commission. In view of the difficulties experienced as a result of such administrative control vesting with the two universities, one of them located at a considerable distance from the laboratory, it was felt desirable that the administrative control of the Observatory should be assigned to one University preferably the Jammu & Kashmir University. This decision, among several others, relating to this Observatory was taken by the University Grants Commission at its meeting held in October 1964. Subsequent to this, the administrative control of the Laboratory has been taken over by the Jammu & Kashmir University who have constituted a Managing Committee for running this laboratory. Thus, after a period of uncertainty and reduced activity, the Gulmarg Observatory has re-started functioning in the normal way and has at present undertaken the following projects for investigation:

- (1) Continuous measurement of cosmic rays
- (2) Study of radioactive fall-out at Gulmarg
- (3) Continuous measurement of meteorological variables.

The University Grants Commission gave maintenance grant to the Observatory upto 31.3.1974. Thereafter the Observatory and its maintenance became part of the committed expenditure of the Kashmir University, Srinagar. The staff salaries from 1.4.1974 are being paid by the Kashmir University.

The position of the staff now is as under:-

1.	Professor	M.K. Khara, M.Sc., Ph.D.
2.	Reader	Vacant
3.	Scientific Officer	B.N. Raina, M.Sc.
4.	Scientific Officer	Vacant
5.	Scientific Officer	Vacant
*6.	Lecturer	Vacant

\*This post is subject to final confirmation.

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7. Research Fellow S.U. Usmani
8. Research Fellow Vacant
9. Research Fellow Vacant
10. Research Scholar Vacant
11. Research Scholar Vacant

AUXILIARY STAFF

1. Glass Blower M.L. Chawla
2. Mechanic G.M. Mir
3. Electrician Vacant
4. Mistry Abdul Ahad Shora
5. Head Assistant cum Accountant Mohd. Ashraf
6. Driver Balwant Singh
7. Laboratory Assistant cum store-keeper Gh. Ahmad Bhat
8. Laboratory Attendant Abdullah Bhat
9. Laboratory Attendant Khazir Mohd. Magry
10. Laboratory Attendant Ab. Samad Mir
11. Orderly Mohd. Bhat
12. Chowkidar Ahmed Sheikh
13. Sweeper Rehman Sheikh

Other facilities available at the Observatory:

- ELECTRIC POWER** 220 V, single phase, 3 KVA and 440 V, 3 phase, 25 KVA, Diesel Generating sets; Also available to commercial supply 220 V, A.C. with a 20 KVA voltage stabilizer.
- WORKSHOP** One Lathe and small tools together with the services of a Mechanic, Mistry and Electrician.
- LIBRARY** Books around 500 : Bank volumes about 45 of scientific journals : Currently 31 journals being subscribed. Total value of the books and journals around R.1.60 lakhs.
- SCIENTIFIC EQUIPMENT** Perkin Elmer, single beam, double pass fore prism grating spectrograph; Infra-red Spectrophotometer.
- Grating Spectrograph
- Basic equipment for microwaves; klystron signal source, frequency standard multiplier, crystal maker etc.

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Meson Cubical Telescope; G.M. Counters, Beta Counter; Gas Flow Counter for alpha studies.

Meteorological Instruments

RADAR 10 cm (due to be received shortly)

Scintillation Spectrometers with Na-I mounted photomultipliers.

Neutron survey meter and Gun type logarithmic survey meter for gamma activity. Apparatus for the study of radioactive emanation from the ground.

Microscopes; General purpose and nuclear emulsion scanning type.

Oscilloscopes (Tektronix, DuMont, Cossor, Philips).

Calculating Machine : Electronic and hand driven : Electronics Desk Calculator.

Strip chart recorders; Single channel, four channel and potentiometric recorder.

Equipment for the measurements of Atmospheric electric field, conductivity, Air-Earth current and point discharge studies.

Present Position:

On September 4, 1972 Gulmarg Research Observatory was notified by the order of the University Council as one of the constituent units in the Faculty of Science. The notification read as under:-

"While retaining its national character to attract scientists and scholars from other parts of the country to pursue high altitude studies the Gulmarg Research Observatory is hereby declared as an independent unit in the Faculty of Science, University of Kashmir, extending to it the jurisdiction of all the academic and executive authorities of the University as in the case of other Departments of the University".

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This was done consequent upon the consideration of the Report of the Expert Committee appointed by the University Grants Commission for the Development of the Gulmarg Research Observatory. The said Committee visited the Observatory on 11.5.1971.

On the request of the University of Kashmir another committee headed by Dr. Ramanna was appointed by the University Grants Commission. This committee was constituted to consider and make recommendations in respect of academic programmes of the Gulmarg Research Observatory for the following few years. This committee visited the Observatory in September 1972 and also held discussions with the Heads of postgraduate departments of Physics, Botany and Zoology. The committee also consulted the Chancellor, Pro-Chancellor and Vice-Chancellor. Consequently a report was submitted by the Additional Secretary, University Grants Commission to the University of Kashmir in June 1973.

In the nutshell the following was the main recommendation of the report:-

\*.....It is suggested that the Gulmarg Research Laboratory may develop studies in environmental sciences and take up research programmes related to these training programmes and of relevance to high altitude. The studies in environmental sciences could be developed at the Master's degree level leading to a two-year M.Sc. degree. The courses may emphasize areas of (a) Physical science and (b) biological sciences. The suggested syllabus for each of these programmes is given below....." The report also recommended that the base department of the Observatory be established in the University Campus where the above courses should be offered.

Regarding courses on physical sciences a syllabus was suggested on 'Environmental Physics' with an emphasis on Meteorology.

This report was then placed before the Select Committee (consisting of the heads of the Department of Physics, Botany, Zoology, Mathematics and the Gulmarg Research Observatory) constituted for the purpose by the Vice-Chancellor. The Committee resolved that an M.Sc. course on 'Environmental Physics' be started as soon as possible at the University Campus while the introduction of a course on 'Environmental Biology' be postponed for the time being. It was decided that the resolutions of the Select Committee would be placed before the Academic Council of the University for its consideration.

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It is expected that the Kashmir University will modify its M.Sc. Physics syllabi so as to include at least two papers on Atmospheric Physics, and at a later stage start a fullfledged course in Atmospheric Physics leading to the M.Sc. Degree. The Gulmarg Research Observatory will continue to serve a useful purpose in the field of scientific research and atmospheric physics.



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Annexure-V to Item No.

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Copy of letter No. F.2(3)140/Dev dated 11.2.1975 from the Deputy Registrar (Dev) University of Kashmir, Hazratbal, Srinagar-6, addressed to the Secretary, University Grants Commission, New Delhi.

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Sub: Provision of grants for the Gulmarg Research Observatory.

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I am directed to say that the University Council, which is the chief executive authority of the University and is headed by the Governor of the State, at its meeting held on 6.1.1975 while considering functioning of the Gulmarg Research Observatory resolved as under:-

"that the recommendations of the Syndicate be placed before the Council at its next meeting and the University Grants Commission be approached to provide grants for the salaries of the staff and other recurring expenditure in respect of the Observatory at least for the current financial year".

In the light of above it is requested that the Observatory may kindly be financed by the Commission with respect to the salaries and recurring grants amounting to Rs. 1.89 lakhs for the current financial year as the University has no resources of its own to feed the Observatory.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting: 7<sup>th</sup> May,

Dated: 1975

Item No. 9 To consider the recommendations made by the Panel on History about the development of Museums and provision of audio-visual aids in the universities and development of studies in the history of science.

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The University Grants Commission, at its meeting held on 9th and 10th December, 1974 considered the recommendations made by the Panels in the Humanities and Social Sciences and desired that (i) the question of developing museums and providing audio-visual aids to the departments of History/Archaeology may be brought up separately before the Commission at a later meeting; and (ii) the proposal to support studies in the history of science outside the V Plan allocation of the Universities may be accepted in principle and the History Panel may be requested to identify a few departments of history/archaeology for the purpose.

The meeting of the History Panel was held on 15th January, 1975 to consider inter-alia the suggestions made by the Commission. The recommendation of the panel were placed for consideration before the University Grants Commission at its meeting on 10.2.75 (Item No.28). The Commission desired that the recommendation of the panel about development of museums and developments of studies in the history of science may be considered at a later meeting of the Commission.

The Panel's recommendation in the matter is indicated below:-

(a) Development of Museums and provision of Audio-Visual Aids:

The Universities and Colleges should be encouraged to build up and enrich their collection of coins, stone-age materials, sculptures and copper plates. Plaster casts of valuable coins and sculptures may be provided by the National Museum; the colleges and universities should be encouraged to buy these items. Universities which have already a working museum should be further encouraged to acquire a basic nucleus which could be further developed by acquiring exhibits obtained during field work and project work. It is most important that visual representation of buildings and archaeological sites should be made available to students through packets of transparencies e.g. for

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architecture, paintings, sculptures etc. The universities which have a general museum may be helped to set up separate sections for history and archaeology in their museums. Any antiquity collected by the students during the exploratory tours and used by a Ph.D. scholar in his doctoral dissertation should automatically become the property of the department which is sponsoring him for the degree.

Assistance may be made available to the universities outside the V Plan allocations for setting up museums in history and archaeology. In the initial stages, a grant of Rs.10,000/- may be given to those universities which show interest in setting up museums to cover the cost of (a) transparencies, (b) plaster casts, (c) field work and (d) mediascope. A grant of Rs.20,000/- may be given to universities which have already working museums in history and archaeology for further development during the V Plan period.

(b) Development of studies in the History of Science.

The scheme for providing assistance to the universities outside the V Plan allocation for teaching of history of science at M.A. level may be circulated to universities having Centres of Advanced Study in Science subjects and those which have strong department of History. The universities finally selected for participation in the scheme may be provided assistance towards the appointment of one lecturer or Reader on a 100 per cent basis during the V Plan.

The matter is placed before the Commission for consideration.

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UNIVERSITY GRANTS COMMISSION

Meeting: *12th May 1975*

Dated: \_\_\_\_\_

1975

Item No. 10 To consider the question of assessment of the work of the Junior Research Fellows so as to become eligible to receive fellowships at Rs.500/- p.m.

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1. The University Grants Commission at its meeting held on 7th May 1974 accepted the recommendations made by the Standing Committee on Fellowship programme regarding the U.G.C. fellowships in Humanities, Social Sciences and Sciences and inter-alia desired as under:-

"The value of Junior Research Fellowships may be raised to Rs.400/- per month for the first two years and Rs.500/- per month for subsequent 2 years after the work has been assessed and found satisfactory. (Note: Till such time the work of the Junior Research Fellows has been assessed by the Commission through interview, they will be entitled to the fellowship at the rate of Rs.400/- only)."

2. In this connection it may be stated that the following types of junior research fellowships are being awarded with the same terms and conditions:-

- (a) All-India Junior Fellowships awarded by the University Grants Commission after inviting applications.
- (b) Junior fellowships instituted by the universities, both State and Central, out of the funds made available by the Commission.
- (c) Junior fellowships instituted under CAS/DSA programmes.
- (d) Junior fellowships instituted under Commission's scheme for support for research or other earmarked research projects.
- (e) Junior research fellowships created by the Central Universities under 'Non-Plan'

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3, The procedure to be followed for evaluating the work of the Junior Research Fellows who at present are drawing Rs.400/- p.m. under the scheme of fellowships awarded by the University Grants Commission at the end of two years of their tenure is as under:-

"All Junior Research Fellows who have completed two years of their tenure are required to submit a report indicating the work done and the progress made in their approved research project through the Supervisor and the university. This report should be accompanied by an assessment report from the Supervisor of the candidate. These reports may then be referred to two experts by the Commission to indicate (a) whether in the light of the work already done by the candidate, he may be given the increased amount of the fellowships, or (b) may be allowed to continue on the existing basis for another year when his work could be again evaluated, or (c) whether the candidates' work may be assessed after an interview, and (d) the fellowship may be discontinued because of the unsatisfactory progress.

While forwarding the assessment report of the research fellow the Supervisor should indicate the total number of students working for Ph.D. under his guidance at the time of reporting indicating the names of the students, date of registration and the topic of research of the scholars."

4. With regard to the Junior Research Fellowships instituted under CAS/DSA programmes, the procedure for the assessment is as under:-

"The Junior Research Fellows will receive Rs.400/- p.m. in the first two years. Thereafter they will receive Rs.500/- p.m. subject to their work having been evaluated and found satisfactory. The evaluation may be done by the respective Advisory Committees for the Centres of Advanced Study/Departments selected for Special Assistance. It will be essential for the external experts of the Advisory Committees to be present at such meetings. The recommendations of the Committee in this respect may then be sent to the Commission for concurrence."

5. Regarding fellowships created by the Central Universities under 'non-plan' it has been agreed that the assessment may be done by the Central Universities themselves by a Committee having a nominee of the University Grants Commission, this has already been done in the Jawaharlal Nehru University and the names of the nominees of the Commission have also been suggested to the University.

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The Visva-Bharati, Delhi University and Aligarh Muslim University have also accepted the suggestion of the Commission but the names of the nominees of the Commission are yet to be suggested.

6. It will be apparent that different procedures have been suggested for the assessment of the work of the Junior Research Fellows having the same terms and conditions of award of fellows under various programmes of the Commission.

7. The Junior Research Fellows who were receiving Rs.300/- p.m. have been given Rs.400/- p.m. from 1st July, 1974. Some of these fellows would have completed 2 years on that date. Accordingly whether such Research Fellows be paid Rs.500/- retrospectively or they may be on Rs.400/-p.m. until such time their work is evaluated. The period they are paid Rs.400/- p.m. may not perhaps exceed one year in any case.

8. It has been suggested that the question to have a uniform procedure for evaluating the work of the junior fellows after two years of the award of fellowship so as to avoid disparities amongst the students be considered by the Commission. The matter is accordingly placed before the Commission for consideration.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting:

Dated: 12th May, 1975

Item No.11: To consider the question of institution of posts of Readers in Colleges.

The Commission while considering the Sen Committee Report on conditions of service of teachers in its meeting held on 2nd & 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 College/State Government would take over this as committed expenditure.

If this is accepted, the following suggestions are for Commission's consideration with regard to the selection of colleges where posts of Readers may be instituted:

- 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;
- c. While selecting the colleges where such posts may be sanctioned, the criteria laid down for selection for Cehsip Colleges may be kept in view;
- d. Posts of Readers may be made available for each of the Departments providing facilities for Honours/Postgraduate teaching. In case of departments where more than one post of Reader is required, the proposal may be examined on merits of each case.

The matter is placed before the Commission for consideration.

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Ref. Item No. 11.

A meeting of the Working Group appointed to consider the question of instituting Readership in Colleges was held on May 11, 1975. The following were present :

Professor Satish Chandra  
Professor R.S. Sharma  
Professor M. Santappa  
Professor B.M. Udgaonkar  
Shri R.K. Chhabra

The Group noted that the Commission had already endorsed the recommendations of the Sen Committee that Readerships/Professorships may also be created in selected undergraduate and postgraduate colleges and preferably in autonomous colleges. The Group was of the view that it was necessary to adopt a 2-prong approach & Readerships attached to institutions which satisfy certain criteria of performance and quality; and readerships for individuals of merit who may be working or want to work in any college.

There was a considerable discussion as to whether, from the academic point of view, the "institution based approach" and the "individual based approach" should not be introduced simultaneously.

The Group was of the view that, to begin with, Readerships may be created in colleges for such departments as were permanently affiliated to the University concerned, and which satisfy the following norms :

- a)
- b)
- c)
- d)

The Commission's assistance for the creation of these Readerships would be on 100% for the plan period, and the State Government/College concerned would have to give an assurance that the expenditure on these posts would continue to be met from their own resources after the Commission's

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assistance ceases. The Group noted that as already agreed to by the Commission, the qualifications and the mode of recruitment to these posts would be the same as prescribed for corresponding posts in the University Departments.

The Group was also of the view that it would be desirable to create Readerships in Colleges on an "individual based approach" and desired that this may be examined further at a later stage.



UNIVERSITY GRANTS COMMISSION

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Meeting:  
Dated : 12th May, 1975

Item No. 12 To consider the reports of the UGC Visiting Committee to the Universities of Cochin, Calicut and Kerala (18-28 November, 1974).

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The Visiting Committee constituted by University Grants Commission visited the Universities of Cochin, Calicut and Kerala from 18-28 November, 1974. The Committee consisted of:-

1. Professor N.V. Thirtha  
Department of Education  
Bangalore University.
2. Professor E.S. Rajgopal  
Department of Physics  
Institute of Science  
Bangalore.
3. Professor N.R. Deshpande  
Department of Political Science  
Nagpur University.
4. Professor Agasthalingam  
CAS in Linguistics  
Annamalai University
5. Dr. N.K. Panikkar  
Member, National Commission on  
Agriculture (Now Vice-Chancellor  
Cochin University)
6. Professor Gautam Mathur  
Department of Economics  
Osmania University
7. Dr. Molly Thomas (Nominee of the State Govt.)  
Director of Collegiate Education.
8. Shri I.C. Menon  
Deputy Secretary  
University Grants Commission .. Secretary to the  
Committee.

The report is in four sections. Section (I) deals with background information and general observations of the Committee in regard to the development of the universities in the State. Section (II), (III) and (IV) are the reports on the Universities of Cochin, Calicut and Kerala respectively.

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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 drafts have been modified. Professor N.R. Deshpande has specifically suggested that the creation of the administrative building of the Cochin University at Cochin Palace 20 kilometers away is not a satisfactory arrangement. This has been included in the report.

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 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, four 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 summary of financial implications relating to each University is given below:-

B. Cochin University: During the fourth plan, in 1968, the University Grants Commission 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 allocations 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.18.75 lakhs

Recurring	Rs.14.50 lakhs
Miscellaneous	Rs. 5.8 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:-

Ist Priority	Rs.52.42 lakhs
IIInd Priority	Rs.18.50 lakhs
IIIrd Priority	Rs.14.95 lakhs
<b>TOTAL:</b>	<u>Rs.85.87 lakhs</u>

About Rs.14.50 lakhs are estimated for recurring, for 8 Professors, 19 Readers, 23 Lecturers and 6 others. Of the above staff, 6P, 11R, 5L and 3 others are in the first priority; 2P, 6R, 10L, 3 others are in the second priority; 2R, 8L are in the third priority. 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 (25% for Lecturers, 50% for Library staff) during the Fifth Plan is estimated at Rs.2.00 lakhs.

On the non-recurring side, the share of the State Government (for buildings only) is Rs.15.75 lakhs.

Cochin University besides consolidation of the existing departments of Physical, Marine Biology, Law and Commerce, the following new courses and programmes are recommended:

(Department/Division of Applied Chemistry which will function along with the Physics Department as a School of Physical Sciences which will be related to problems of the area in collaboration with the industry. The areas of specialization will be industrial physics, polymer chemistry and natural chemistry. A new division of Mathematics and Statistics will be started which will cooperate with other departments. The Computer Centre has not been approved. The Marine Biology Department will be developed as a School of Marine Sciences with five divisions of the two new divisions will be Chemical Oceanography and Marine Zoology. The department of Geology of Kerala University at Trivandrum will cooperate in Marine Geological programme. The Committee has not recommended setting up the School of Life Sciences instead a unit of Micro-biology has been recommended under the School of Marine Sciences nor has the proposal for setting up an Institute of Health Sciences been approved since this comes under the department of health of the State and Union Government. There is a proposal of Technical Education (Shipping Technology etc.) ~~not~~ not considered by the Committee since

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this will be done by AICTE and UGC jointly later on. The School of Marine Sciences and Law and Social Sciences can jointly work out inter-disciplinary programmes in Ocean Affairs and Management.

The School of Social Sciences will have three divisions, of which Business Management will be within the ambit of AICTE. The Division of Commerce will be strengthened and a division of Applied Economics will be added, the main function of which will be to provide guidance for the proper planning and the industrial development of the Area.

There will be cooperation between the School and the concerned departments of Kerala University. As regards the present department of Hindi, the recommendation is that this should be shifted to Kerala University, Trivandrum where there is no Hindi Department. This will be in harmony with the technological character of the Cochin University. There will be a Division of Foreign Languages in Russian, French and German.

Semester pattern will be introduced in the university and examination reforms will be started during the Fifth Plan.

C. Calicut University : During the IVth Plan, the University Grants Commission had sanctioned schemes worth Rs.79.28 lakhs for the University out of which the University had utilized 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
	<hr/>
	Rs. 14.43 lakhs

B. Basic Grants

a) Books	Rs. 3.00 lakhs
b) Equipment	Rs. 5.00 lakhs
	<hr/>
	Rs. 8.00 lakhs

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
	<hr/>
	Rs. 127.60 lakhs

Grand Total (A+B+C): Rs. 150.03 lakhs (rounded  
Rs. 1.50 crores).

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Taking the spill-over and the basic grants approved during 1974-75, the anticipated outlay (non-recurring) will be as under :

Ist priority	Rs. 68.83 lakhs
2nd priority	Rs. 29.50 lakhs
3rd priority	Rs. 23.70 lakhs
Total :	<u>Rs. 122.03 lakhs</u>

About Rs.28.00 lakhs are estimated for recurring for 12 professors, 29 readers, 42 lecturers and 4 others. Of the above staff 9 professors, 13 readers, 14 lecturers and 2 others are in the Ist Priority, 3P, 15R, 12L and 2 others are in the IIrd Priority; IR, 16L are in the IIIrd Priority. This will have to be taken over by the State Government at the end of the Vth Plan. The share of the State Government for recurring (25% for lecturers, 50% of the Lib. staff) during the fifth plan is estimated at Rs.3.50 lakhs.

On the non-recurring side the scheme of the State Government (for buildings only) is Rs.12.75 lakhs. Besides consolidation of the existing departments the following new departments are recommended:-mathematics, economics, philosophy, psychology, journalism and school of fine arts and drama. Under the umbrella of the School concept, related departments will cooperate in teaching and research on inter-disciplinary basis. The school of fine arts and drama will be located at Trichur about 50 miles away for which land and building have been donated by the family of late Dr. John Mathai. It has been proposed by the University that in due course the Trichur Centre will have a nucleus of staff to coordinate postgraduate teaching in Trichur and neighbouring areas.

The University had proposed setting up of an Institute of Life Sciences including Environmental Sciences but it has been accepted in a modified form as a Unit of Life Sciences which will make use of the facilities of the existing departments of Botany and Zoology and those available in the Medical College in the city of Calicut. The proposals for new departments are social work, german and russian have not been recommended.

D. Kerala University. During the IV Plan, the University Grants Commission had sanctioned schemes amounting to Rs.80.50 lakhs of which about Rs.62.00 lakhs were utilized. The financial implications of V 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>

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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	<u>Rs. 29.00 lakhs</u>
	<u>Rs. 169.65 lakhs</u>

Grand Total: Rs. 200.83 lakhs  
A+B+C

Taking the spill-over and the basic grants approved during 1974-75, the anticipated outlay (non-recurring) will be

Ist Priority	Rs. 102.50 lakhs
IIInd Priority	Rs. 41.00 lakhs
IIIrd Priority	<u>Rs. 28.33 lakhs</u>
Total:	<u>Rs. 171.83 lakhs</u>

About Rs. 29.00 lakhs are estimated for recurring for 9 professors, 30 readers, 25 lecturers and 4 others. Of the above staff 5 P, 18R, 4L & 2 others are in the first priority; 4P, 11R, 7L & 2 others are in the 2nd priority. 1R, 14L are in the 3rd priority. This will have to be taken over by the State Government at the end of the Vth Plan. The share of the State Government for recurring (25% for lecturers), 50% for library staff) during the fifth plan is estimated at Rs. 2.50 lakhs.

On the non-recurring side the share of the State Government (for buildings only) is Rs. 32 lakhs. Besides consolidation and strengthening of existing departments the university will start a post-M.Sc. diploma in Applied Electronics from 1975-76. The department of journalism approved in the fourth plan will also be started. A Citizen's Committee of Kottayam met the Visiting Committee for starting a university centre at Kottayam which is the biggest and most active centre of journalism in the State and also M.A. course in History with specialization in international relations. The Visiting Committee has not favoured the course in international relations at Kottayam but has left the option of starting the M.A. course in journalism at Kottayam or Trivandrum as the university deems fit, taking into account the facilities required.

The Centre for Kerala studies as an inter-disciplinary unit and a survey research centre have been recommended.

The priorities have been indicated trying to conform to 50:25:25 as far as possible. The deviations are due to the fact that financial implications have been worked out on the basis of academic programmes and this being so a rigidly mechanistic approach to the above formula was not considered feasible by the Committee. By and large fiscal limits are matched with programmes/projects and physical targets. The committee is of the view that some flexibility is essential so that the universities in the light of specific requirements, unforeseen difficulties and changing priorities are given the freedom to make minor modifications with the approval of the UGC for attainment of better academic standards.

Generally allocations have been made on the basis of the guidelines indicated by the planning group of the UGC (20% for books, 8% misc. 20% equipment, 27% staff, 25% building. Buildings have been accommodated to the barest minimum, even though for proper development of a corporate life in the new campuses, a good deal of investment is necessary within the next 10 years or so. But in regard to books and equipment the limit of 40% has been exceeded, and deliberately at that, because the Committee has been in favour of increasing the academic components. This includes Central Instrumentation and Services Laboratories which have been requested for by the Universities and rightly acceded to by the visiting committee. There is a new awakening in the universities as to the need for inter-departmental collaboration in teaching and research on a multi-disciplinary basis. Against this background the formation of 'Schools' in allied disciplines was suggested by the Committee and responded to favourably by the concerned departments. The need for strengthening research and involvement of the university departments in teachers improvement programmes has been taken care of in the reports. Many departments have proposed M.Phil. programmes, two dimensional in character (a) as a pre-Ph.D. programme and (b) for upgrading the competence of college teachers both in contents and methodology. Some provision has been made within the plan for fellowships, as well as, Faculty Improvement Programmes. Similarly, to strengthen teaching programmes at higher levels experts will have to be invited from relevant fields of studies from other universities and institutions like I.I.T's I.I.Sc., T.I.F.R. National Laboratories etc. and this has been provided under 'Visiting professorships.' In order to encourage timely dissemination of research activities of quality, publication grants are also recommended. All these programmes are included within the 8% provision for miscellaneous. These may need additional support which may/ rendered outside the Plan.

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Another major development that has been welcomed by the State Government this came up at the discussions of the Visiting Committee with the Chief Minister and his advisers is the constitution of a Planning and Coordinating machinery at the highest level in the State, which will consist of among others, the Vice-Chancellors of the universities in the State and a UGC representative. This will set in motion the process of inter-university co-operation in the State. Similarly, at the Universities there will be a Planning and co-ordinating machinery, which will also review and evaluate performance of all projects and schemes periodically. This will be an useful feed back for UGC for annual stocking of the progress of implementation in every university and the State as a whole, based on which modifications and adjustments could be made. In the view of the Committee, such an evaluation on yearly basis is essential.

The reports are placed before the Commission.

D.S.(D.I).



PART I Reports of the Visiting Committee to the Universities  
of Cochin, Calicut and Kerala in the State of Kerala

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During November 1974, a UGC Committee vi sited the three Universities in Kerala to assess the requirements of the universities during the Fifth Plan in the context of the overall allocations made by UGC to these Universities. The Committee consisted of the following:

1. Professor N.V. Thirtha, Department of Education, Bangalore University Convenor
2. Professor E.S. Rajgopal, Department of Physics, Indian Institute of Science, Bangalore.
3. Professor N.R. Deshpande, Department of Political Science, Nagpur University, Nagpur.
4. Professor Agesthialingam (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, Department of Economics, Osmania University(He could not participate in the discussions at Cochin University)
7. Dr. (Mrs.) Molly Thomas Director, Collegiate Education(Nominee of the State Government)
8. Shri I.C. Menon, Deputy Secretary, UGC.

The Committee was in Kerala from 18-28 November, 1974 and held discussions with the Vice-Chancellor, Heads of Departments and staff, Registrars and met the representatives of the Student's Unions, Research Scholars, non-teaching staff and a Citizens' Committee from Kottayam district in regard to setting up of Postgraduate Centre(Academic Centre) at Kottayam under the Kerala University. The Committee had the privilege of meeting the University Syndicates in all the three places; the Chief Minister, Education Minister, Secretaries to the Government of Kerala in the Departments of Education, Finance and Planning and some members of the State Planning Board; for this latter meeting, held on 27th November, 1974, the Vice-Chancellors of Calicut and Kerala

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Universities and the Pro-Vice-Chancellor of Cochin University were also present,

As a result of these deliberations, the Committee could get a total view of the field of higher education, particularly in regard to Arts, Science & Commerce in the State. As a preamble to the individual reports of the Committee on the three universities some of the impressions of the committee are set forth in this section of the Report.

### Background

Kerala is a small state, tucked away in the south west corner of India. It has an area of 38,854 sq. km. which represents only 1.03 percent of the total area of India. But it supports a population of 21,347,375 which is 3.89 per cent of the total population of the country (1971). The disproportion between its area and population is reflected in the density-which in 1971 was 549 persons to the sq. km. This is the highest density among the states of the Union, higher densities being registered only by four Union Territories-Delhi(2,723), Chandigarh (2,254), Laccadive, Minicoy and Amindivi Islands, now known as Lakshadweep(994)- and Pondicherry(982).

Kerala has always led and still leads all other states of India in literacy with 60.16 percent literates. Among States and Territories taken together, Kerala is second in point of literacy, Chandigarh being first with 61.56 percent, having a marginal 1.14 lead over Kerala.

But despite the leadership in density and literacy, Kerala is a very backward state economically.

### Physiography

Kerala may be divided into three geographical regions (1)Highlands (2)Midlands and (3)Lowlands. The Highlands slope down from the Western Ghats, which rise to an average height of 3000 feet, with a number of peaks well over 6000 feet in height. This is the area of major plantations like tea, coffee, rubber, cardemom and other spices. The Midlands lying between the mountains and the Lowlands is made up of undulating hills and valleys. This is an area of intensive cultivation. Cocanuts, arecanuts, tapioca, bananas, rice, ginger pepper, sugarcane and vegetables of different varieties are grown in this area. The Lowlands, or the coastal area which is made up of the river deltas backwaters and the shore of the Arabian Sea is essentially a land of coconuts and rice. Fisheries and coir industry constitute the major industries of this area.

Rivers - Kerala is the land of rivers and backwaters. More than forty rivers cut across Kerala with their innumerable tributaries and branches, but these rivers are comparatively small and being entirely monsoon-fed, practically turn into rivulets in summer, especially in the upper areas.

Formation of the State

When India became free, Kerala was made up of two native states Travancore and Cochin, and Malabar which was under the direct administration of the British. One of the first steps taken by independent India was to amalgamate small States together so as to make them viable administrative units. In pursuance of this policy the Travancore and Cochin States were integrated to form Travancore-Cochin State on 1st July 1949. But Malabar remained as part of the Madras Province. Under the State's Re-organisation Act of 1956, Travancore-Cochin State and Malabar were united to form the State of Kerala on 1st November, 1956:

<u>District</u>	<u>Area Sq.Km.</u>	<u>Population (1971)</u>	<u>Headquarters</u>
Alleppey	1809	2125722	Alleppey
Cananore	5699	2365164	Cananore
Ernakulam	2368	2377020	Ernakulam
Idikki	5126	553955	Kottayam (Temporary)
Kottayam	2203	1537337	Kottayam
Kozhikode	6688	2106249	Kozhikode
Malappuram	3865	1856362	Malappuram
Palghat	5113	1885342	Palghat
Quilon	4849	2412821	Quilon
Trichur	2974	2128797	Trichur
Trivandrum	2195	2198606	Trivandrum

Economic Structure

Agriculture:- Owing to historical and climatic reasons the State has developed commercial crops more than food crops consequently, the state is short of food-grains (the deficit is nearly 50% of the requirements, and is nearly 1 million tonnes annually) especially rice, which is the staple food of the people.

Principal Crops are :

Rice, Sugarcane, Banana, Arecanut, Cashew nut, Tapioca, Coconut, Tea, Coffee, Rubber, Ginger, Pepper, Oilseeds including coconut, Cardamom.

Fisheries:- The State is well developed in fisheries. The total fish production in 1969-70 was 3.85 lakh tonnes valued at Rs.23.55 crores as against 3.66 lakh tonnes valued at Rs.13.2 crores in 1968-69.

Minerals:- The State's mineral wealth consists mainly of beach minerals like ilmenite, rutile, monazite and sillimanite as also clays, quartz, sand, lime shell etc.

Industry and Mining:- Kerala has several factors favourable for rapid industrialization. The State is endowed with abundant forest wealth with large deposits of minerals of economic importance, hydroelectric potential, intelligent and literate manpower resources and a favourable climate. A number of organisations 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.

Employment: The problem of unemployment in Kerala is assuming serious proportions and it is receiving increasing attention from both the public and the government. On the basis of the findings of a sample survey, open unemployment in 1965 was estimated at 5.47 lakhs forming 9.1 per cent of the labour force; in addition 13.78 lakh persons were reported to be under-employed. No comprehensive survey of unemployment has been conducted since then, so that only broad approximations about the subsequent trends of unemployment could be derived. A rough estimate based on Employment Exchange data indicates that open unemployment has presumably risen to 9 lakhs by now, which would constitute 13 per cent of the labour force. Taking into account the projected labour force and the likely increase in employment the number of underemployed may be estimated to have increased to 14.8 lakhs.

Unemployment among technically and professionally qualified persons is still more acute according to recent studies on some of the critical categories of man-power. It was found that the magnitude of un-employment among them is far more acute than what the registration figures indicate. It is estimated that the number of unemployed among graduate engineers and diploma holders in engineering at the end of the year 1970 was of the order of 3,500 and 5,600 respectively. The unemployment among the medical graduates also is increasing to serious proportions and it is estimated that the number of unemployed doctors at the end of 1972 of the order of 650.

Employment in the Public and Private Sectors

<u>Period ending</u>	<u>Public sector</u>	<u>Private sector</u>	<u>Total</u>
31.12.1969	291082	427715	718797
31.12.1970	293318	409562	702880
30.6.1971	319926	406114	726040
30.6.1972	325115	420254	745369
30.9.1972	343637	414653	758490

(Source: Economic Review Kerala 1972)

Distribution of work seekers by Educational Level

<u>Period ending</u>	<u>Below S.S.L.C.</u>	<u>S.S.L.C.</u>	<u>Pre-Degree</u>	<u>Graduates</u>	<u>Post Graduates</u>	<u>Total work seekers</u>
31.12.69	96,153	124,469	6,275	11,002	1,687	239,586
31.12.70	115,304	151,279	7,469	17,703	1,994	293,754
31.12.71	166,305	167,714	10,168	20,841	2,253	367,381
31.12.72*	N.A.	N.A.	N.A.	N.A.	N.A.	431,839

\* Provisional

Source: Economic Review Kerala 1972.

Number of Professional and Technical Work Seekers

<u>Period ending</u>	<u>Medical Graduates</u>	<u>Engg. Graduates</u>	<u>Diploma holders in Engg.</u>	<u>ITI Certificate holders</u>	<u>Agricultural Graduates</u>	<u>Vocational Graduates</u>
31.12.1969	185	1,299	N.A.	N.A.	156	N.A.
31.12.1970	281	1,852	3,547	8,380	133	70
31.12.1971	405	2,068	3,450	9,894	128	116
30.6.1972	391	1,908	3,671	8,745	103	53

Literacy and Education

Kerala with a literacy percentage of 60.16 in 1971 is the leading State of India in education. The per capita expenditure of the State in education in 1969-70 was Rs.25.18. This is the highest expenditure incurred by any State in India except Nagaland.

Higher Education:- In the field of higher education, the establishment of more and more Arts and Science Colleges became inevitable as the number of students seeking college education increased steadily over the years. There were 120 Arts and Science colleges in the State during 1969-70 as against 124 in 73-74. Out of these, 28 are Junior Colleges.

The State has four universities - the Kerala University, the Cochin University, the Calicut University and the Kerala

Agricultural University.

	<u>Educational Institutions</u>			
	<u>1971-72</u>		<u>1972-73</u>	
	Govt.	Pvt.	Govt.	Pvt.
1. Primary Schools	2804	4091	2798	4089
2. Upper Primary Schools	811	1740	811	1739
3. High Schools	446	247	448	951
4. Basic Training Schools	-	-	31	73
5. Arts and Science Colleges	12	105	14	105
6. Training Colleges	4	15	4	15
7. Industrial Training Institutes*	...	....	12	28
8. Polytechnics**	..	.....	10	7

Note: Total number of pupils in (LP, UP, and High Schools) 1971-72(4979731), 1972-73(5156275).

\*Intake Capacity 9327

\*\*Including three womens' Polytechnics at Kozhikode, Trichur and Trivandrum. Total intake capacity 2038. Source: Economic Review Kerala 1972.  
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The SSLC enrolment in the State for the last/years is given in the following table:

1966	1,57,402
1967	1,50,165
1968	1,55,008
1969	1,58,810
1970	1,73,017
1971	1,79,032
1972	1,83,045
1973	1,68,708
1974	2,38,255
1975	3,35,000

The pass percentage has been around 30% for the last few years.

The Chief Minister in his discussions with the Committee explained that the State Government attach great importance to education so much so that 50% of the total budget of the State is spent on education. In keeping with the constitutional directives and social justice, the State has done well in achieving the target of 100% enrolment at the primary stage and has reached 78% of enrolment in the age group at the middle school while at the secondary stage 31.2% of the population in the age group have been enrolled. The overall percentage of literacy is 60.2 which is highest among all the States in the country. Thus from literacy to secondary level, the State is in the forefront. This expansion of the educational pyramid at the lower level has led to a commensurate expansion in college education as well. The overall enrolment in higher education per thousand population is 8.5 in Kerala i.e. the second position among all the States in the country, with the first position held by the Union Territory of Delhi. The State Government is cautious about expansion of postgraduate education. While the average figure for the State is 260 per million population, ninth rank amongst the States, the all India average being 250 million population. The Government does not desire indiscriminate expansion of higher education and has not given affiliation to new undergraduate and postgraduate colleges during the current year and proposes to follow the same policy for some more time. The future expansion at the undergraduate level will be through Non-Collegiate education by permitting private appearance of candidates, and postgraduate expansion will be in modern and diversified fields, mostly in the University Department. 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 (research enrolment in Kerala is 11 per million population as against all India average of 22 per million population) the State looks up to UGC for generous support and encouragement, specially for research projects and enhancing the number of UGC fellowships to the departments - as well as augmenting the differential between the UGC fellowships and the university fellowships.

While the Committee was struck by the large number of postgraduate colleges, further expansion of the situation would not be in keeping with the attainment of academic excellence and it is noted with satisfaction that the State Policy is not to encourage this growth. However, it would be desirable that wherever there is a cluster of postgraduate colleges in a town the setting up of University Centres (PG) may be extended generally so that there is coordination by a University Professor or Reader in each subject and the academic resources are pooled and the best teachers are selected who may not necessarily be the seniormost in service.

Where there is centralised 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 college 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 PG Centre would continue to be considered a Postgraduate institution.

The State cannot afford to provide requisite finances for expansion of higher education at the cost of school education and the situation has been accentuated with the take-over of the responsibility by the State Government for direct payment of salaries to college teachers and developmental support for colleges. At the meeting with the Chief Minister, it was impressed upon the Committee to convey to the UGC the need for increasing measure of cooperation between the State Government and the UGC through periodical consultation - with a view to sorting out problem and knowing in advance the programmes, the 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 the 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 UGC may accept the suggestion. The State Government would do its best to provide about Rs.3 crores for development of the three universities in the State during the Vth Plan or at least to the extent of Rs.2.25 crores, but this would depend upon the resources position.

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 UGC 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 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 college 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 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 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 will 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 will 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 Technological 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 years' time the transfer could be completed. The University Campus at Trivandrum should accommodate the Hindi Department in the School of Languages and School of Social Sciences. This will release the language block at Cochin University for its other development needs.

The next thing which impressed the Committee was the steps taken by the Cochin University and notably the Calicut University in ensuring proper coordination in borderline areas through inter-disciplinary cooperation. 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 modernize 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 common and central instrumentation and services laboratory and workshop manned by qualified and experienced 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, training in basic skills with machinery (glass work, metal work, wood work and electronics) will be an integral part of the master's and M.Phil. programmes in the sciences. For both these courses project work will be compulsory.

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this will be done by AICTE and UGC jointly later on. The School of Marine Sciences and Law and Social Sciences can jointly work out inter-disciplinary programmes in Ocean Affairs and Management.

The School of Social Sciences will have three divisions, of which Business Management will be within the ambit of AICTE. The Division of Commerce will be strengthened and a division of Applied Economics will be added, the main function of which will be to provide guidance for the proper planning and the industrial development of the Area.

There will be cooperation between the School and the concerned departments of Kerala University. As regards the present department of Hindi, the recommendation is that this should be shifted to Kerala University, Trivandrum where there is no Hindi Department. This will be in harmony with the technological character of the Cochin University. There will be a Division of Foreign Languages in Russian, French and German.

Semester pattern will be introduced in the university and examination reforms will be started during the Fifth Plan.

C. Calicut University : During the IVth Plan, the University Grants Commission had sanctioned schemes worth Rs.79.28 lakhs for the University out of which the University had utilized 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
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	Rs. 14.43 lakhs

B. Basic Grants

a) Books	Rs. 3.00 lakhs
b) Equipment	Rs. 5.00 lakhs
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	Rs. 8.00 lakhs

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
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	Rs. 127.60 lakhs

Grand Total (A+B+C): Rs. 150.03 lakhs (rounded  
Rs. 1.50 crores).

Similarly, the Central Library will be the focus of attention, study and activities of scholars from the various Schools. The Committee also, therefore, envisages that minimum essential books and journals need be kept in the individual departments to fit in with the above objective which will also spare lot of space in the Departments.

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 while due consideration should be given to promote the interests of scheduled castes/tribes and other unquestionably backward sections of society, this should not be done at the cost of merit and academic considerations, particularly at the level of professors and readers. This point was also discussed by the Committee with the Chief Minister and his advisers.

But since there are difficulties in overcoming these obstacles in the short run, the Committee is of the view that for the vacant posts, 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 large 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.

Research scholars in the three universities represented to the Committee that presently the university fellowship amount is Rs.250/- per mensem without any contingent grant which is far less than the UGC/CSIR fellowship for research. This was discussed with the Chief Minister who made it clear to the Committee that in the straitened financial situation of the State, it is not possible to raise the quantum of research fellowships, however, desirable it may be. The University Grants Commission may sympathetically consider the issue and make good the difference between the UGC fellowships and university fellows in the interest of attracting and retaining talented scholars in research activities. This is in keeping with the role of the University Grants Commission as regards maintenance and coordination of standards in the universities.

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 also agreed that the State Government would examine the possibility, of some the University staff residences being accommodated within the programmes of State Housing Schemes.

The Visiting Committee was impressed with the degree of decentralization of power and delegation of authority by the Vice-Chancellor 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 including the students 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.

Fellowships:- Fellowships are recommended with a view to attracting and retaining bright young scholars in research. It is suggested that 50% of the fellowships may be provided to outstanding students from other universities and other States. Insularity and inbreeding are baneful influences to be guarded against. It is necessary and useful to institute pre-Ph.D. programmes like M.Phil.

Faculty Improvement Programme:- Another important point that emerged at the discussions with the Universities was the emphasis on Faculty Improvement programmes for teachers particularly those from PG Colleges where very few hardly 5-10% have research qualifications. There are 42 Postgraduate Colleges in the State. Of the total Postgraduate enrolment of nearly 6500 in the State, 85% are enrolled in the Colleges. In order to make a beginning without delay, the Committee recommends a small provision with the Plan allocations, but the bulk of it may be supported by the University Grants Commission 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.

Thus M.Phil. programmes are 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, on a planned basis. Such an exposure of teachers to the widening boundaries of knowledge is an essential prerequisite in raising of standards.

Similarly, in order to ensure mobility among scholars/experts, and to help weaker departments, the committee recommends a provision for visiting professorships under the Plan allocations .

Generally, 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 could best be done through a compact and composite library committee in which students also could be represented. However, provisions 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.

Planning Machinery:- 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 feedback will be useful to University Grants Commission on an annual basis in taking stock of the situation. The University Grants Commission 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 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. Rajgopal
3. Professor N.R. Deshpande
4. Professor Agasthalingam
5. Professor Gautam Mathur
6. Dr. N.K. Panikkar
7. Shri I.C. Menon

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 fullfledged 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 UCC 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

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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 1

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

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.12.00lakhs 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-Assst. 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.

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 urgency.

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 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. Agasthalingam
  5. Prof. Gautam Mathur
  6. Dr. N.K. Panikkar
  7. Sh. I.C. Menon

ANNEXURE

COCHIN UNIVERSITY

Summary showing the position of Spill over + Basic + New allocations on the basis of 5th Plan Visiting Committee.

<u>A</u>	<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
<u>B</u>	<u>BASIC</u>			
	(i) Books	3.00		
	(ii) Equipment	<u>5.00</u>		
		<u>8.00</u>		8.00
<u>C</u>	<u>NEW ALLOCATIONS (UGC Share)</u>			
	(i) Books	23.30		
	(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
	<u>GRAND TOTAL OF A+B+C</u>			<u>Rs. 100.38 lakhs</u>

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.

COCHIN UNIVER.

Appendix-II

S. No.	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 & Service Lab.	-	-	-	-	4.00	1.00	1.00	6.00	0.50	0.25	0.25	1.00	-	-													
12. Univ. Lib.	4.00	1.00	1.00	6.00	-	-	-	-	3.00	1.50	1.50	6.00	-	-													
13. Women's Hostel	-	-	-	-	-	-	-	-	2.25	-	-	2.25	-	-													
14. Staff Qrs.	-	-	-	-	-	-	-	-	2.00	2.00	1.00	5.00	-	-													
15. Publications	-	-	-	-	-	-	-	-	-	-	-	-	0.50	-													
16. Visiting Profs.	-	-	-	-	-	-	-	-	-	-	-	-	0.00	-													
17. 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	2.80	13	

The figures indicate UGC Share.



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.Asstt.I Tech. Asstt.
Total :		<u>8</u>	<u>19</u>	<u>23</u>	<u>6</u>	

P     8  
R     19  
L     23  
O     6

Appendix IV

Staff - Cochin University

P - Professor  
 R - Reader  
 L - Lecturer  
 O - Others

		<u>P O S T S</u>		
		I	II	III
1.	Physics	1P	1L	-
2.	Chemistry	2P 1R	1R 1L	1R 2L
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	2P	2R )
		11R	6R	8L )
		5L	10L	)
		3-0	3-0	P - 8 R - 19 L - 23 O - 6

### PART III

#### Report of the Visiting Committee to the Calicut University (November 1974)

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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 64 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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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

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

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 position annihilation and properties 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 L

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

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.



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.

..../-

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

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 Dakhini.

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.

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

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.

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.

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 : 2Asstt. Librarian (Lecturer's scale)  
1 Deputy Librarian (Reader's scale)  
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 - Researcher'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.1.50 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. Agasthalingam
5. Prof. Gautam Mathur
6. Dr. N.K. Panikkar
7. Shri I.C. Menon

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) Others 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)

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. 30,950.86
		<u>Rs. 73,123.67</u>

GRAND TOTAL (A + B) Rs.14,43,430.67

(Grants sanctioned during IV Plan Rs.79.28 lakhs)

Calicut University

S.No.	Department	S t a f f			
		P	R	L	O
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	-	-	1	-
12.	Mathematics	1	2	3	-
13.	Fine Arts & 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	-	1	2	-
			(Dy.Lib.)	(Asst.Lib.)	
19.	Education	1	3	4	-
20.	Central Workshop				
	Instrumentation and Services	-	1	1	4
	Lab.		(Instt. Engg.)	(Jr.Engg.) Scientists	(Tech.)
		12	29	42	4

Appendix IV

Calicut University

S.No.	Department	S t a f f			
		I	II	III	
1.	Chemistry	1R 1L	1P	2L	
2.	Physics	1R	1P	2L	
3.	Zoology	1P 1L	1R	1L	
4.	Botany	1R 1L	1P	2L	
5.	Unit of Life Science	1R	2R	-	
6.	History	1P	1R	1L	
7.	Commerce	1R	2L	1R	
8.	Hindi	1R 1L	1R	1L	
9.	Malayalam	1R 1L	1R 1L	1L	
10.	English	1P 1L	1R	-	
11.	Arabic	1L	-	-	
12.	Mathematics	1P 1R	1R 2L	1L	
13.	Fine Arts & Drama	1P 1R 1L	1R 1L	1L	
14.	Economics	1P 1R 2L	1R 1L	1L	
15.	Philosophy	1P 1L	1R 1L	-	
16.	Journalism	1R	1L	-	
17.	Psychology	1P 1L	1R 1L	-	
18.	Library	1L	1R	1L	
19.	Education	1P 1R 1L	2R 1L	2L	
20.	Instrumentation and Services Lab.	1R 2 Tech.	1L 2 Tech.	-	
		P=9 R=13 L=14 O= 0	P=3 R=15 L=12 O= 2	R=1 L=16 X Y )	P=12 R=29 L=42 O= 4

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

Contd...

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, Multivariate, 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

Contd...

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 Monozite, LImenite, Ziroon, Rutile, Silliminate 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  
Fellowships : 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) Botanic garden and Experimental station, the experimental farm has 25 acres. A wide collections of germ plasm of economically important plants and their wild relations including inker crops, cereals, millets, pulses, fruit plants, ornamental plants, oil uielding plants, medicinal plants is maintained for providing reservoir of crop germ plasm. A spacious green house in attached to the Department sheltering several specie of plants of botanical importance. This includes a collectio of over 200 species of tropical ferns, 165 species of crohids ornamental plants and others belonging to various plant group

The Department possesses 1250 curie cobalt 60 gama shir 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 scholar 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

Contd...

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

c) 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

Contd...

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) Darsanas particularly Vedanta;
- (c) Sanskrit Literature of Kerala including history and epigraphy
- (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

Contd....



- (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 1975. 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...

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) Cognat 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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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 uni

Contd..

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 SRO (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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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 colleges 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 (Reader's scale)

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. They 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



KERALA UNIVERSITY

ANNEXURE

SUMMARY OF SPILL OVER + BASIC + NEW ALLOCATION  
ON THE BASIS OF V PLAN VISITING COMMITTEE.

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A.	<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	
		<u>18.68</u>		<u>18.68</u>
.....				
B.	<u>BASIC</u>			
i)	Books	5.00		
ii)	Equipment	7.50		
		<u>12.50</u>		<u>12.50</u>
.....				
C.	<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	
		<u>169.65</u>		<u>169.65</u>
.....				
Grand Total (A + B + C)				<u>200.83</u>

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Appendix-I

BILL OVER SCHEMES - KERALA UNIVERSITY, TRIVANDRUM

<u>BUILDINGS</u>	Rs.
1. Teachers Hostals	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
	14,29,117
<b>B. <u>STAFF :</u></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
	2,87,500
<b>C. <u>MISCELLANEOUS SCHEMES</u></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
	1,50,084-44 p.
 <b>GRAND TOTAL OF A + B + C</b>	
Rs. 14,29,117	
Rs. 2,87,500	
Rs. 1,50,084-44 p.	
Rs. 18,66,701-44p.	

( Grants sanctioned during IV Plan = 80.50 lakhs )

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APPENDIX II

KERALA UNIVERSITY

DEPARTMENTS	BOOKS				EQUIPMENT				BUILDINGS				OTHERS	FELLOWSHIPS	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	1.00	1.00	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	-	-	-	-	9.30%	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	-	-	0.50	-	-	*Including chartening of Boats.	
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	Renovation of Aquarium @Animal House & Rattery	
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	-	-	-	-	-	-	-	-	-	4		
19. German	0.20	0.20	-	0.40	-	-	-	-	-	-	-	-	-	-		
20. Russian	0.25	0.25	-	0.50	-	-	-	-	-	-	-	-	-	-		
21. Linguistics	0.50	0.25	0.25	1.00	0.25	0.25	0.10	0.60	-	-	-	-	0.10£	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	
23. Education	0.15	0.10	-	0.25	0.50	0.25	0.25	1.00	-	-	-	-	0.10'	-	' Surveys	
24. Journalism	0.15	0.15	0.10	0.40	0.25	0.25	-	0.50	-	-	-	-	0.25*	-	* Visiting Experts/ Specialists	
25. Centre for Keralastudy	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.	5.00	3.00	2.00	10.00	0.30	0.20	-	0.50	-	-	-	-	-	-		
29. Cent. Wksp. & Instrumentation & services lab.	-	-	-	-	5.00	3.00	2.00	10.00	1.50	-	-	1.50	-	-		
30. GENERAL Sc. Block	-	-	-	-	-	-	-	-	6.00	4.00	2.00	12.00	-	-	Area 50,000 Sq.ft.	
31. Teachers Host. & Staff Qrs.	-	-	-	-	-	-	-	-	5.00	3.00	2.00	10.00	-	-		
32. Lib. at Univ. Campus	-	-	-	-	-	-	-	-	5.00	3.00	2.00	10.00	-	-		
<u>MISC. SCHEMES</u>																
33. Visiting Prof. Ships	-	-	-	-	-	-	-	-	-	-	-	-	2.00	-		
34. Faculty Improv. Programmes.	-	-	-	-	-	-	-	-	-	-	-	-	6.00	-	Fellowships	
35. Publications	-	-	-	-	-	-	-	-	-	-	-	-	2.00	-	Upto 20% would be Senior Fellows	
36. Univ. Press	-	-	-	-	-	-	-	-	-	-	-	-	1.50	-		
													14.30	33		

APPENDIX - III

KERALA UNIVERSITY

S. NO.	DEPARTMENT	P	R	L	O	REMARKS
1.	Mathematics	1	1	-	-	
2.	Statistics	-	1	1	-	
3.	Physics	1	3	4	-	
4.	Chemistry	-	1	2	-	
5.	Biochemistry	1	1	2	-	
6.	Geology	1	2	-	-	
7.	Botany	-	1	1	-	
8.	Zoology	1	1	1	-	
9.	Aquatic Biology & Fisheries	-	-	2	-	
10.	Economics	-	2	-	-	
11.	Politics	1	1	-	-	
12.	Psychology	-	1	1	-	
13.	History	-	-	2	-	
14.	Sociology	1	1	1	-	
15.	Malayalam	1	1	1	-	
16.	Tamil	1	-	-	-	
17.	Sanskrit	-	1	1	-	
18.	English	-	1	-	-	
19.	German	-	1	-	-	
20.	Russian	-	1	2	-	
21.	Linguistics	-	1	-	-	
22.	Oriental Research Instt. & M. S. S. Library	-	1	-	-	Sen Res. Officer
23.	Education	-	3*	1	-	
24.	Central Library	-	1*	-	-	
25.	Journalism	-	1	2	-	
26.	Survey Research	-	1@	-	-	@Sen Res. Officer
27.	Central Workshop & Instt. Lab.	-	1*	1	4@	* Dy. Lib. *Sen R. Officer @Technician Mechanic
		9	30	25	4	

T O T A L :

P 9  
L 25  
R 30  
O 4

APPENDIX -IV

KERALA UNIVERSITY  
STAFF STRENGTH

	I	II	III
1. Maths	P-1	R-1	-
2. Stat	-	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 Res. Institute	R-1	-	-
23. Survey Research Centre	R-1	-	-
24. Central Wksp & Instrumentation Lab.	R-1 O-2	L-1 O-2	-
25. Central Lib	R-1	-	-
26. Education	R-2	R-1	L-1
27. Journalism	R-1	L-1	L-1
	P-5 R-18 L-4 O-2	P-4 R-11 L-7 O-2	P-0 R-1 L-14 O-0
			P-9 R-30 L-25 O-4

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UNIVERSITY GRANTS COMMISSION

Meeting : (89)

Dated : 12th May, 1975

Item No. 18 To consider the report of the Visiting Committee to  
Himachal Pradesh University.

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A joint UGC - ICAR Visiting Committee was appointed to assess the fifth plan development proposals of the Himachal Pradesh University, with the following members:-

- |    |   |          |
|----|---|----------|
| 1. | Prof. J.B. Chitamber<br>Member, UGC   | Convener |
| 2. | Prof. R.C. Paul<br>Vice-Chancellor<br>Panjab University                     | Member   |
| 3. | Prof. S.K. Joshi<br>Department of Physics<br>Roorkee University             | "        |
| 4. | Prof. M.R.N. Prasad<br>Department of Zoology<br>Delhi University            | "        |
| 5. | Prof. P. Dewan<br>Department of Law<br>Panjab University                    | "        |
| 6. | Prof. A.L. Nagar<br>Delhi School of Economics<br>Delhi University           | "        |
| 7. | Prof. P.S. Gupta<br>Department of History<br>Delhi University               | "        |
| 8. | Prof. P.K. Roy<br>Dean (Academic)<br>N.C.E.R.T., New Delhi                  | "        |
|    | <u>Nominees of ICAR</u>   |          |
| 9. | Dr. Mukhtar Singh<br>Director<br>Central Potato Research Institute<br>Simla | "        |

Contd....

(89a)

10. Dr. G. Prasad Member  
Assistant Director General  
I.C.A.R., New Delhi
11. Dr. S.C. Dutt "  
Assistant Director General  
I.C.A.R., New Delhi
- State Government Nominee
12. Shri B.L. Harla "  
Director of Education (Colleges)  
Himachal Pradesh,  
Simla
- Officer of the UGC
13. Shri Y.D. Sharma Secretary  
Education Officer

2. The Committee, with the exception of Dr. S.C. Dutt, who could not accompany visited the three campuses of the Himachal Pradesh University at Solan, Simla & Palampur on November 7 - 9th, 1974. The Committee had detailed discussions with the Vice-Chancellor, Deans of Faculties, Head of the Departments. The Committee also had an occasion to exchange views with Shri D.R. Mahajan, State Education Minister concerning Higher Education in the State. The Committee met the student representatives and discussed matters concerning their welfare and development of corporate life within the campus.

3. A copy of the report is enclosed (Annexure-1). Volume I deals with the proposals grants for which will be paid by the Commission. While Volume II includes proposals for the implementation of which the ICAR is responsible.

4. The report has the approval of the members of the Committee.

5. On the recommendations of a screening Committee which reviewed the recommendations made by the Visiting Committee which assessed the fourth plan requirements of the Himachal Pradesh University, the University Grants Commission allocated a sum of Rs. 91.59 lakhs (UGC share) for the implementation of various development proposals; the University however, utilised grants amounting to Rs. 58.30 lakhs, i.e. 63.6% of the funds allocated, by the end of the fourth plan as under:

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Projects	Approved cost	IVth Plan expenditure	Percentage utilisation during IVth plan
(Rs. in Lakhs)			
1. Development of Science Education	45.50	31.75	69.5%
2. Development of Humanities and Social Science Education	15.33	11.75	76.6%
3. General Projects	30.76	14.80	48.1%
Total :	91.59	58.30	63.6%

6. On the present estimates the spill over that is required on the basis of commitments made during the fourth plan is Rs.42.45 lakhs. In addition, the Commission approved the following projects during fifth plan period before the visit of the Committee:-

Project	UGC Share.
1. Construction of Men's Hostel for 60 students	Rs. 4.72 Lakhs
2. Construction of Women's Hostel for 30 students	Rs. 3.54 Lakhs
3. Basic grants	
(a) Equipment	Rs. 5.00 Lakhs
(b) Books	Rs. 3.00 Lakhs
Total :	Rs. 16.26 Lakhs

7. The Himachal Pradesh University introduced the following courses during fourth plan.

- (a) "Correspondence course in PUC (Arts), B.A., M.A. (Economics, English, Hindi, History, Political Science and Sanskrit) and M.Ed. were instituted in 1971-72.
- (b) Reforms in system of examination and evaluation were introduced. System of Spot evaluation of answer scripts was introduced in 1972-73, with a view to shortening the gap between the termination of examination and declaration of its result. The University also allows facilities for persons intending to improve their divisions in M.A. examinations.

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(896)

- (c) Semester system was introduced in 1972-73 in various faculties, viz. Arts, Science, Commerce, Law and Education. Trimester system has been introduced in the Faculty of Agriculture. The improvement of syllabus also received constant attention.
- (d) The Himachal Pradesh University is the first to implement the recommendations of the Gajendragadkar Committee on Governance of Universities and Colleges and has appointed the students representatives on the University court.

8. The Commission has made a tentative allocation of Rs. 100 lakhs for the 5th plan period under three priorities i.e. I - 50% - II - 25% & III - 25%.

9. Taking the spillover and the grants for the schemes already approved the visit of the Committee, a sum of Rs. 58.71 lakhs has already been committed by the Commission. The commitments made for exceed the suggested allocation of Rs. 50 lakhs for the first priority schemes. Even assuming that the total indicated allocation of Rs. 100 lakhs is made available (for which we understand there is hardly any hope), a sum of Rs. 41.29 lakhs as UGC share is left for the implementation of the new projects which the committee might recommend. The Committee found itself in a very tight spot and placed the facts before the Vice-Chancellor, the faculty and other authorities of the University and impressed upon them the need for utmost economy and expeditious execution of the projects in hand so that their costs of construction do not increase further. The only alternative was to have strong teaching departments having adequate research facilities, rather than having a large number of weak departments. In any future expansion of teaching and research facilities factors like (a) need for studying some basic subjects, (b) research and production problems faced by the State, and (c) employment potentiality, should be accorded due emphasis. The University authorities appreciated this stand and agreed to the various suggestions made by the Committee towards consolidating the existing facilities rather than spreading the limited resources thinly.

10. The main recommendations of the Committee are detailed below:-

- (a) The Himachal Pradesh University came into existence only four years ago. Starting from scratch, the University has not so far been able to provide regular building accommodation in which to house the various teaching departments, library, laboratories, teachers and students. Some other necessary facilities like the central workshop, gas plant, animal house, glass house, botanical garden, health centre, printing press, students study centre, play grounds, gymnasium, auditorium etc are absent at present. Whatever make shift arrangements have been made by putting up temporary structures or by hiring and acquiring buildings are not satisfactory for the efficient and effective functioning of the University. Secondly the entire academic programme of the University is receiving a set back for want of regular building. The Committee was convinced of the genuine needs of the University, and very strongly urged the University Grants Commission not to insist of the overall limit fixed under various priorities for this newly established and fast developing University, and agree to the

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(89d)

recommendations which it considered as the bare basic minimum all under the first priority programmes for the effective functioning of the University. Due to financial constraints imposed on the Committee it had not been able to consider the development programmes placed before it under priorities two and three. Unless the recommendations made below are approved by the University Grants Commission and executed efficiently by the Himachal Pradesh University, the conditions are not likely to improve substantially. On the other hand, the difficulties being experienced by the University would increase because the strength of the students is likely to rise in fifth plan.

(b) Established in 1965 as a part of the Regional Centre of Postgraduate Centre at the Panjab University, the department has 28 teachers in M.Sc. classes with a teaching strength of eight teachers : One Professor specialising in theoretical elementary particle physics, three Associate Professors whose specialities are experimental solid spectroscopy, field theory and solid state theory, and four Lecturers who work in particle physics theory, theoretical nuclear physics, solid state theory and experimental nuclear physics. The Committee feel that this structure does not show a proper balance between theory and experimental work. Also for a small department, people from too many different areas have been recruited. It is not conducive to forming viable groups. The department may endeavour to build one coherent group which has within it both theorists and experimentalists, who will catalyse each others activity. One area in which such a group could be suggested is solid state electronics; the department would then run a device-biased M.Sc. course. Applied optics could be other such area. The M.Sc. course could be reoriented/as to make them job-oriented without sacrificing the training of the students as good physicists.

∠ so

(c) The Committee recommended the setting up of a gas plant, animal house and glass house with temperature control for work.

(d) Though the purpose of setting Biosciences department was to give a composite degree of life sciences, the University is now offering M.Sc. degree in Botany and Zoology. With the limited staff available no justice can be done either of the subjects. The committee, therefore, suggests that the University may discontinue offering separate M.Sc. degree in Botany and Zoology separately and may consider offering an M.Sc. degree in Life Sciences.

(e) Discussions with the heads of the various Science Departments indicated that at the M.Phil stage a great deal of collaboration and coordination in teaching was possible amongst these departments. A number of courses which one of the department offers for its M.Sc. degree programme could profitably be used by M.Phil course students of other department. It would, of course, be necessary to mould the courses taught by another department so that they remain relevant to the students taking the course. Wherever necessary, tutorials should be arranged to supplement the courses. The departments should explore the areas where they could collaborate in research. Such collaborative

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programme will create an atmosphere for an effective use and establishment of Central Research Facilities in the University. The University is establishing a Central Workshop, Gas Plant and Electronic Calculator Facilities as Central Facilities.

- (f) The Committee advised the Himachal Pradesh University to defer the establishment of departments of Psychology and Music to the next plan.
- (g) The Committee, felt that the courses provided by the department of Agricultural Economics have Agricultural Orientation and its development should therefore, be looked after by I.C.A.R.
- (h) The Committee emphasised the importance of active collaboration and academic liaison with Institutions like Indian Institute of Advanced Study, Simla, State Institute of Language, Simla Central Potato Research Institute, Simla, Central Research Institute, Kasauli etc. The staff of these institutions could be considered as honorary staff of the University Departments. Some of these centres could also be recognised as University Centres of Research and Ph.D. degree etc. The University departments in Simla should also collaborate with the Agricultural Complexes at Solan and Palampur.

11. A statement indicating the financial implications of the various recommendations made by the Visiting Committee for the 5th plan period is as under:

Department	Recurring Teaching Staff					Equip.	Non-Recurring		Grant		
	P	R	L	O	Total UGC share		Books	Building Total			
	(Rupees in lakhs)										
1. Science	-	-	2	3	5	2.10	11.20	3.50	17.00	31.70	33.
2. Humanities & Social Sciences	-	2	-	-	2	1.60	-	2.60	-	2.60	4.
3. General	-	-	-	-	-	-	2.80	1.40	15.76	19.76	19.
	-	2	2	3	7	3.70	14.00	7.50	32.76	54.26	57.
Spill over from IVth Plan								42.45 lakhs			
Fifth Plan Schemes								<u>57.96 lakhs</u>			
								<u>100.41 lakhs</u>			

12. It may be mentioned that the representative of the State Govt. assured the Committee that the matching share of the State will be made available within the limited resources. No project will be allowed to suffer due to paucity of funds.

13. The report is placed before the Commission for consideration.

D.S.(D2)

UNIVERSITY GRANTS COMMISSION

Volume I

Draft Report of the Visiting Committee to Himachal Pradesh University, Simla, for assessing its Fifth Plan Development Proposals.

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The University Grants Commission appointed a visiting committee to examine the fifth plan development proposals of the Himachal Pradesh University. The committee consisted of the following members:-

1. Professor J.B. Chitambar  
Member,  
U.G.C.

*Convener*

2. Professor R.C. Paul  
Vice-Chancellor  
Panjab University.

3. Professor S.K. Joshi  
Department of Physics  
Roorkee University.

4. Professor M.R.N. Prasad  
Department of Zoology  
Delhi University.

5. Professor P. Dewan  
Department of Laws  
Panjab University.

6. Professor A.L. Nagar  
Delhi School of Economics  
Delhi University.

7. Professor P.S. Gupta  
Department of History  
Delhi University.

8. Professor P.K. Roy  
Dean (Academic)  
N.C.E.R.T.  
New Delhi.

Nominees of I.C.A.R.

9. Dr. Mukhtar Singh  
Director  
Central Potato Research Institute  
Simla.

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10. Dr. C. Prasad  
Assistant Director General  
I.C.A.R.  
New Delhi.

11. Dr. S.C. Dutt  
Assistant Director General  
I.C.A.R.  
New Delhi.

Himachal Pradesh Government Nominee

12. Shri B.L. Handa  
Director of Education (Colleges)  
Himachal Pradesh  
Simla.

Officer of the U.G.C.

13. Shri Y.D. Sharma  
Education Officer.

2. The committee, with the exception of Dr. S.C. Dutt who could not accompany it, visited the three campuses of the Himachal Pradesh University at Solan, Simla and Palampur on November 7, 8 & 9, 1974, and had discussions with the Vice-Chancellor, Deans of Faculties, Heads of Departments and other authorities of the University. The committee also had an occasion to exchange views with Shri Des Raj Mahajan, State Education Minister and discussed matter concerning higher education in the state with the representatives of the Himachal Pradesh Education Department. The committee held discussions with the student representatives on matters concerning their welfare and development of corporate life within the campus. The committee visited various departments and held detailed discussions with the teachers. The University Library was also visited.

3. In the preliminary meeting at Solan Agricultural Complex, Dr. R.K. Singh, Vice-Chancellor, while welcoming the joint-U.G.C.-I.C.A.R. team, gave an account of the development of this newly born Hill University and appraised the committee of the special problems faced by a young developing University. He said that the developing Universities have to build up considerable necessary infrastructure, the cost of which was constantly rising, before it can meet even the bare minimum educational requirements of student. In the case of hilly areas the problem is more accentuated, the cost of construction in such areas might be double or even more than that in the plains and that demanded higher ceiling of allocation. He also emphasised that like the I.C.A.R., the U.G.C. should also give recurring grants for the recruitment of teaching staff for a period of five years from the date of appointment and not till the end of a plan period. He impressed upon the committee that notwithstanding the limitations of resources, rising prices and difficulties experienced in hill areas, it might suggest ways and means

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for consolidating and integrating, developing and improving the existing facilities in order to achieve 'excellence' in various disciplines.

4. The Committee was then taken to 'Borlaug Campus', a newly acquired site, where on shifting from Solan, the new agricultural complex of the University would be developed. At Simla, the committee was acquainted with the master plan for the future development of the University, and the progress of the various building construction projects undertaken with the financial assistance from the University Grants Commission.

5. The committee split into three groups : one group visiting the various postgraduate science departments comprising the natural and earth sciences division and the biological science division; the second group visiting the postgraduate departments constituting the divisions of behavioural sciences, economic sciences, humanities and legal studies; and the third group visiting the agricultural complex of the University at Palampur.

#### PART II - SOME BASIC FACTS

6. The Himachal Pradesh University was established on July 22, 1970. According to the Himachal Pradesh University Act, 1970 (Act No.17 of 1970), it is a teaching-cum-affiliating University with its jurisdiction co-terminus with the boundaries of the Himachal Pradesh State which it seeks to serve. It is a multifaculty University with emphasis on agriculture and allied sciences. The postgraduate teaching and research is undertaken in the University teaching departments and undergraduate teaching by the affiliated degree colleges including except in the University Evening College at Simla. The Centre of Postgraduate Studies comprising of science and arts departments, Law department, Music department, the Himachal Pradesh University Evening College and the School of Education form integral parts of the University at Simla.

7. The University has seven faculties : (i) Faculty of Agriculture and Forestry, (ii) Faculty of Arts, (iii) Faculty of Science, (iv) Faculty of Education, (v) Faculty of Law, (vi) Faculty of Commerce & Business Administration and (vii) Faculty of Medicine.

8. The facilitate interdisciplinary study and research, the subjects for postgraduate studies other than those in agricultural complex, have been grouped into the following divisions:

- |    |                                    |   |
|----|------------------------------------|---|
| 1. | Physical & Earth Sciences Division | Physics, Chemistry, Mathematics, Geology, Mining & Metallurgy   |
| 2. | Biological Sciences Division       | Botany & Zoology, Bio-Sciences, Physical Anthropology, Microbiology                                       |
| 3. | Behavioural Sciences Division      | Psychology, Education, Political Science, Sociology, History, Social Anthropology, Public Administration. |

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- |    |                            |   |
|----|----------------------------|---|
| 4. | Economic Sciences Division | Economics, Agricultural Economics, Geography, Commerce, Business Administration |
| 5. | Humanities Divisions       | Languages & Philosophy  |
| 6. | Legal Studies Division     | Law   |

7. Fifteen postgraduate departments functioning under the Centre for postgraduate studies at Simla are :

(i) English, (ii) Hindi, (iii) Sanskrit, (iv) History, (v) Political Science, (vi) Economics, (vii) Agricultural Economics, (viii) Business Administration, (ix) Mathematics, (x) Music, (xi) Education, (xii) Law, (xiii) Physics, (xiv) Chemistry and (xv) Bio-Sciences (Botany & Zoology)

In addition, the departments of German and Russian impart teaching in certificate and diploma courses in these subjects.

The Departments of Physics and Chemistry are located in a deconsecrated Church Building at the Mall, Simla. The Department of Bio-Sciences (Botany and Zoology) is located at Boileauganj in the Press Building of the Indian Institute of Advanced Study, Simla-5. The Department of Music, Law and Education are located in Ava-Lodge, (G.M's former residence), Simla-4. M. Phil courses in all the subjects of postgraduate studies with the interdisciplinary approach (except in Law & Music) are also offered in the University. Apart from this, Ph.D. students are on the rolls in some departments.

13. The agricultural complex of the University is located at two campuses at Solan and Palampur. Facilities for undergraduate teaching exist at both the campuses, whereas postgraduate studies and research faculties have been allotted to the two campuses according to their agroclimatic conditions. The Palampur campus provides these facilities in genetics and plant breeding, agronomy, soil sciences and animal sciences, while the Solan campus provides facilities in horticulture, botany, plant pathology, zoology, entomology and forestry. The Himachal Pradesh University was the first to introduce forestry as a University discipline in its agricultural complex at Solan, and animal husbandry as a discipline at Palampur.

11. Out of the 22 degree colleges affiliated to the University, 13 are Government colleges, 8 are non-Government privately managed colleges and 1 University Evening College (Annexure I). These colleges provide degree courses in arts, science, commerce and medicine. The Government Medical College, Simla prepares students for M.B.B.S. degree. B. Com. courses are taught by Government Colleges at Dharamsala and Mandi and at the C.G.D. College, Brijnath Evening Classes in arts faculty are attached with Government colleges at Dharamsala, Mandi and Nahan. Twelve colleges provide instructions in arts and science, and 9 colleges including University Evening College, Simla, teach arts subjects only. Honours courses in English, Hindi, Sanskrit, History, Political Science, Economics, Mathematics, Philosophy and Geography are offered at the degree level in selected colleges. There are 623 teachers (including 22 principal) working in colleges.

Psychology

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12. In addition, 9 Sanskrit Vidyalayas, including five Government managed, are associated with the University. These institutions impart education in traditional methods of teaching Hindi and Sanskrit courses in Ratna Bhushan, Prabhakar, Prajna, Visharda and Shastri. The Central Potato Research Institute, Simla, is recognised for research leading to Ph.D. degree and the Central Research Institute, Kasauli, is recognised for imparting institution for B.Sc. (Microbiology) course in the faculty of Medical Sciences and M.Sc. (Microbiology) and Ph.D. degree.

13. The total enrolment in all faculties in the University teaching departments and its constituent and affiliated colleges increased during the four year period 1970-74 from 12,659 to 18,377 as under :-

HIMACHAL PRADESH UNIVERSITY

Enrolment\* by Faculties : 1970-71 to 1973-74  
(including Affiliated/Associated Colleges)

S.No.	Faculty	1970-71	1971-72	1972-73	1973-74
1.	Arts	8,651	10,091	10,683	12,627
2.	Science	2,445	2,802	3,117	3,752
3.	Commerce	186	212	269	310
4.	Education	548	609	**	131
5.	Legal Studies	-	119	214	408
6.	Music	-	-	6	15
7.	Medicine	279	214	321	304
8.	Agriculture	422	355	356	351
9.	Oriental Learning	128	218	328	449
Total :		12,659	14,720	15,294	18,377

\* Does not include students enrolled for correspondence courses.

\*\* No admissions were made during 1972-73.

14. The enrolment in the University teaching departments and all colleges in various faculties at various stages of instruction in 1973-74 was as follows:

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HIMACHAL PRADESH UNIVERSITY

Enrolment by Faculties and stages of Instruction in  
University Teaching Departments and Affiliated Colleges  
1973-74

S.No. Faculty	Pre Univer- sity/ Inter- mediate	Under gradu- ate	Post gradu- ate	Research (M.Phil/ Ph.D)	Diploma/ Certifi- cate	Total
1. Arts	2,947	9,387	260	10	23	12,627
2. Science	1,320	2,256	176	-	-	3,752
3. Commerce & Business						
4. Administration	27	243	40	-	-	310
5. Education	-	115	10	6	-	131
6. Legal Studies	-	438	-	-	-	438
7. Music	-	-	15	-	-	15
8. Medicine	-	304	-	-	-	304
9. Agriculture	-	293	58	-	-	351
9. Oriental Learning	-	-	-	-	449	449
Total :	4,294	13,036	559	16	472	18,377

15. The Himachal Pradesh University sent the fifth plan proposals of the University teaching departments at the Centre of postgraduate studies at Simla and the Agricultural Complexes at Solan and Palampur. The terms of reference of the visiting committee are, therefore, limited to these departments only. The University Evening College, Department of Business Administration, as also the Directorate of Correspondence Courses are outside the purview of the committee.

16. The distribution of student enrolment and teaching staff according to various faculties and at various stages of instruction in University teaching departments/agricultural complexes during 1974-75 is as under :

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HIMACHAL PRADESH UNIVERSITY

Faculty wise Enrolment and Teaching Staff in University Teaching Departments\* : 1974-75.

No. Faculty	Enrolment				Teaching Staff				
	Under graduate	Post graduate	Research M.Phil/ Ph.D.	Total	Professor	Associate Prof.	Asstt. Professor	Research Scholar	Total
<b>A - Centre of Postgraduate Studies, Simla</b>									
Arts	209	51		376**	4	10	23	12	49
Science	129	17		146	3	9	18	9	39
Business Administration -		40	-	40	1	2	2	-	5
Education	66	3	3	72	1	7	3	-	10
Legal Studies	407	-	-	407	1	3	5	-	9
	<u>473</u>	<u>481</u>	<u>71</u>	<u>1041**</u>	<u>10</u>	<u>25</u>	<u>56</u>	<u>21</u>	<u>112</u>

**B - Agricultural Complex**

255\*\*\*    57    33    345    6+    26+    60+    112+    214+

Excludes Department of Correspondence Courses and University Evening College, Simla.

Includes 16 Students in certificate in German (14) and Russian (2)

Includes 81 students in B.Sc. (Pure Science) at Palampur.

Includes extension staff also.

17. At the Centre of Postgraduate Studies at Simla, there were as many as 15 University Departments under these faculties (excluding agriculture). Of the total enrolment of 1041 students, about 40% of students are pursuing legal studies, 37% students in arts faculty, 17% in science faculty and the remaining 11% students are in Business Administration and Education. The total teaching strength of 112 is distributed as : Professor 10, Associate Professors 25, Assistant Professors 56 and Research Scholars etc. 21. The break up of enrolment and teaching strength according to various departments in each faculty and at various stages of instruction may be seen in Annexure II.

18. The University introduced a scheme since 1972-73, under which nine teachers in different subjects from the colleges were taken by the University on deputation as research-scholars-cum-teachers for three years.

19. The University Library is located at Summer Hill in a building formerly known as Balika Ashram. Departmental Libraries are located at Ava Lodge (Law, Music, Bio-sciences) and Gandhi Bhawan (Chemistry and Physics)

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on the Mall, Simla. The total collection is about 46000 books and 569 journals (including 228 foreign journals) are subscribed. The library has a text book as well as reference section. The average daily issue from the library is 120 books, where as the text book library issues on an average 100 books for overnight use. The library opens between 9.00 a.m. to 9.00 p.m. on all days except Sundays and holidays when the working hours are 9.00 a.m. to 1.00 p.m. The expenditure on books and journals incurred during 1973-74 was Rs.3,78,900. Besides non-recurring grant expected from the University Grants Commission, the University has provided for Rs.2,51,000 in its budget for 1974-75.

At the agricultural complexes at Palampur and Simla, the number of books and journals in stock were about 16,500 and 15,200 respectively, and both the centres subscribe individually to about 300 current periodicals and journals.

20. As many as 150 male postgraduate students and 45 female postgraduate students have been provided hostel accommodation in four different buildings - three for boys and one for girls. The University has also provided residential accommodation to 40 teachers, either by acquiring buildings and renovating them or by getting them on rent. Discussions with the Vice-Chancellor, the teachers and the students showed that the accommodation problem was acute and even after the completion of 160 men students hostel and 80 women students hostel and 40 teachers flats which were under construction. This problem would continue to remain unsatisfactory. In fact the Vice-Chancellor informed that for want of suitable residential accommodation many of the good teachers who were offered teaching assignments by the University have declined to join the faculty. Rents are high, linked this is the exorbitant cost of construction. Moreover transport within the town and its outskirts is not easily available.

22. The relative position of Himachal Pradesh (total area 55658 sq.km.) in respect of population and existing facilities for University and collegiate education is shown below -(1971) :-

S.No.	State	Population in lakhs	Density of population/km <sup>2</sup>	Population served per arts and Science College (lakhs)	Per capita income in Rs.	% of expenditure on Education to State Income	Per capita expenditure on Education	Education budget as % of total budget	Non-Plan Educational budget as % of total educational budget
1.	Himachal Pradesh	34.60	62	1.92	563	3.7	41.0	22.6	90.9
2.	Punjab	135.51	271	1.04	945	2.3	25.78	23.4	87.8
3.	Haryana	100.37	288	1.17	738	2.1	21.21	20.3	80.4
4.	India	5479.50	167	1.96	589	2.7	23.50	23.5	87.2

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22. The University does not have a printing press of its own. Even Simla does not have a fair-sized printing press, which could cope with the essential printing requirements of the University. This difficulty is particularly felt in the case of the correspondence courses. The University incurred an expenditure of Rs.7 lakhs on printing work during 1973-74.

PART III - IMPLEMENTATION OF THE FOURTH PLAN PROPOSALS

23. The fourth plan visiting committee which assessed the fourth plan proposals of the Himachal Pradesh University in October, 1971, recommended an allocation of Rs.172.72 lakhs as UGC share. This included recurring expenditure of Rs.19.88 lakhs for filling teaching and other posts. The Commission had prior to the visit of the visiting committee sanctioned 13 posts of Professors, 14 posts of Readers and 5 posts of Lecturers for its various departments. The visiting committee further recommended 3 posts of Professors, 5 posts of Readers and 15 posts of Lecturers. These recommendations were further scrutinised by a committee appointed by the Commission to identify the high priority programmes which could be implemented during the remaining period of the fourth plan. On the recommendation of the committee, the University Grants Commission agreed to the construction of the following buildings :

- a) Teaching blocks for Physics and Chemistry
- b) Men's hostel for 100 students
- c) Women's hostel for 50 students
- d) One teachers hostel
- e) Staff Quarters

The total cost of these buildings programmes worked out to Rs.92.57 lakhs (UGC share being Rs.70.71 lakhs). An allocation of Rs.6.00 lakhs for book and Rs.10.00 lakhs for equipment for various departments was also agreed to.

24. Finally, the Commission approved the development scheme involving a total expenditure of Rs.91.59 lakhs and paid a total grant of Rs.58.30 lakhs up to the end of the fourth plan.

Projects	Approved cost	IVth plan expenditure	Percentage utilisation during IV Plan
(Rupees in lakhs)			
1. Development of Science Education	45.50	31.75	69.5%
2. Development of Humanities and Social Science Education	15.33	11.75	76.6%
3. General Projects	30.76	14.80	48.1%
<b>Total :</b>	<b>91.59</b>	<b>58.30</b>	<b>63.6%</b>

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25. The University filled the posts of 14 Professors, 17 Readers and 20 Lecturers, against the approved strength of 16 Professors, 19 Readers (including the Librarian), 20 Lecturers and 3 other technicians/glass blower. The remaining posts were not filled up because of non-availability of suitable persons, or because the establishment of certain departments was deferred due to lack of accommodation and financial resources. Entire approved grant for books and equipment was utilised.

26. The University inherited from the Panjab University a number of postgraduate departments which needed consolidation and strengthening in the matter of buildings, equipment, library and teaching staff. Research facilities were practically non-existent. A start was made in the right earnest, with the aim of raising the standards and buildings a strong complex of postgraduate departments at one place. (i) The University established postgraduate departments in Biosciences, History, Agricultural Economics, Music, Sanskrit, Legal Studies and Business Administration, M.Phil/Ph.D. courses were instituted in all the faculties, excepting Music and Legal Studies. ii) Certificate courses German and Russian Languages were started. iii) The College of Education, Simla, on being taken over from the State Government was reorganised and developed as University School of Education with provision for extension and research facilities for teachers of primary, secondary and higher education. B.Ed. & M.Ed. courses were started, (iv) keeping in view the multi-faculty character of the University and Social and Economic problems facing the State, forestry and horticulture were instituted for the first time in the country as university discipline (v) courses were developed at the agricultural complexes at Solan and Palampur according to the agro-climatic conditions and needs of the area.

27. The members of the teaching faculty published over 160 research papers/articles in journals in India and abroad. Two summer institutes - one each in English and Physics were organised in 1973.

28. Correspondence courses in PUC (Arts), B.A., M.A. (Economics, English, Hindi, History, Political Science and Sanskrit) and M.Ed. were instituted in 1971-72. The enrolment of students undergoing courses of study through correspondence during 1974-75 is : PUC (487), B.A. (791), M.A. (3070) and M.Ed. (565). Thirteen teachers including the Director, constitute the faculty.

29. Reforms in system of examination and evaluation were introduced. System of Spot evaluation of answer scripts was introduced in 1972-73, with a view to shortening the gap between the termination of examination and declaration of its result. The University also allows facilities for persons intending to improve their divisions in M.A. examination.

30. Semester system was introduced in 1972-73 in various faculties viz. Arts, Science, Commerce, Law and Education. Trimester system has been introduced in the faculty of Agriculture. The improvement of syllabus also received constant attention.

31. The University is coming up in three distinct zones. First academic zone which includes four blocks of Science and arts, the library, the directorate of correspondence courses and the administrative block. Out of these, two science

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blocks adjacent to Summer Hill House are nearing completion. The second zone comprises men and women hostels at Potter's hills, gymnasium and playgrounds. The construction of hostels is progressing satisfactorily. The third zone consists of residential blocks for University Staff alongwith a shopping centre and guest house. The construction of 40 teachers flat and guest house is nearing completion. The scope of the 27 suited guest house is proposed to be expanded to make it an international University seminar centre.

32. The Himachal Pradesh University is the first to implement the recommendations of the Gajendragadkar Committee on Governance of Universities and Colleges and has appointed ten students representatives on the University court.

33. Keeping in view the fact that the University centre is far away from the city, a bus service has been introduced for the convenience of students and teachers.

34. A University medical dispensary under the charge of a full-time medical Officer, on deputation from the State Health Department, has been set up. It has five rooms used as visitor's room, examination room, dispensing room, store room etc.

35. With a view to bringing the faculty and the citizens of Simla closer, the University instituted in 1972-73, Vichar Sangam (citizen's forum) which arranges lectures, talks etc., on current topics by University teachers and visiting scholars.

#### PART IV - FIFTH PLAN DEVELOPMENT PROPOSALS

36. For the fifth plan period, the Himachal Pradesh University was requested to send proposals within a ceiling of Rs. 100 lakhs, divided into three categories as : first priority programmes Rs. 50 lakhs, second and third priority programmes Rs. 25 lakhs each. The Commission also suggested the general norms of allocation as : building construction 25%, additional staff 27%, books 20%, equipment 20% and miscellaneous 8%.

37. The University sent proposals involving a total expenditure of Rs. 189.90 lakhs - Rs. 155.37 lakhs for priority, 25.13 lakhs for second priority and Rs. 9.40 lakhs for third priority. The University also sent proposals amounting to Rs. 20.49 lakhs (including Rs. 9.44 lakhs for building included in general proposals of Rs. 189.90 lakhs) for the development of University School of Education. The effective proposals for Rs. 11.05 lakhs for the development of School of Education were divided into : additional staff Rs. 6.05 lakhs, books Rs. 1.50 lakhs and equipment Rs. 3.50 lakhs.

38. Finally, the University sent its fifth plan development programmes within the suggested priorities as under:-

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Item	Priority I	Priority II	Priority III	Total
(Rupees in Lakhs)				
1. Building	46.49	13.45	2.00	61.94
2. Additional Staff	-	-	14.65	14.65
3. Books	3.51	3.99	-	7.50
4. Equipment	-	7.56	8.35	15.91
<b>Total :</b>	<b>50.00</b>	<b>25.00</b>	<b>25.00</b>	<b>100.00</b>

39. The above proposals do not include the allocation of Rs. 5.20 lakhs already agreed to for the development of the School of Education up to 1978-79, on the basis of the recommendations of a committee which visited the University in 1972. The details are as under :

A - Recurring Additional Staff

Professor	1)	(50 : 50 basis) UGS share (Rs. in lakhs)
Reader	2)	
Lecturer	4)	

2.70

B - Non Recurring

Books and Journals	0.50
Equipment	0.37
Language Laboratory	0.94
Furniture	0.05
Research Publications	0.70
Seminars	0.05

Total : 2.01

Grand Total : Rs. 4.71 lakhs

40. With the increase in the estimated cost of construction of Science Block (Phase I - Physics and Chemistry) and teachers quarters, the amount of spillover that is requested to be provided as a first charge on the fifth plan funds is Rs. 37.74 lakhs as below:-

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Scheme	Approved UGC share	UGC share on the basis of now enhanced cost	Amount paid in fourth plan	Spillover
(Rupees in lakhs)				
1. Construction of teachers flats	15.33	20.06	8.50	11.56
2. Construction of Science block (Phase I) (Chemistry and Physics)	26.25	31.56	14.00	17.56
3. Construction of 100 Men students hostel*	7.50*	7.50*	4.20	3.00
4. Construction of 50 Women students* hostel	5.62	5.62*	-	5.62
5. Construction of Guest House**	1.00	1.00**	1.00**	-
Total :	55.70	65.74	28.00	37.74

\* Enhanced cost yet to be intimated

\*\* Total grant released (that is the admissible limit)

As soon as the revised/enhanced cost of construction of hostel buildings is ~~intimated~~, the spillover will further ~~increase~~.

41. On the present estimates the amount that is required as spillover on the basis of commitments made during the fourth plan period is Rs. 42.45 lakhs.

42. In addition the Commission has approved the following projects during the fifth plan period :

<u>Project</u>	<u>UGC Share</u>
1. Construction of Men's hostel for 60 students	Rs. 4.72 lakhs
2. Construction of Women's hostel for 30 students	Rs. 3.54 lakhs
3. Basic grants	
(a) Equipment	Rs. 5.00 lakhs
(b) Books	Rs. 3.00 lakhs
Total :	Rs. 16.26 lakhs

43. Taking the spillover and the grants for the schemes already approved before the visit of the committee, a sum of Rs. 58.71 lakhs has already been committed by the Commission. The commitments made far exceed the suggested allocation of Rs. 50 lakhs for the first priority schemes. Even assuming that the total indicated allocation of Rs. 100 lakhs is made available (for which we

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understand there is hardly any hope), a sum of Rs. 41.29 lakhs as UGC share is left for the implementation of the new projects which the committee might recommend. We found ourselves in a very tight spot and placed the facts before the Vice-Chancellor, the faculty and other authorities of the University and impressed upon them the need for utmost economy and expeditious execution of the projects in hand so that their costs of construction do not increase further. The only alternative is to have strong teaching departments having adequate research facilities, rather than having a large number of weak departments. In any future expansion of teaching and research facilities factors like (a) need for studying some basic subjects, (b) research and production problems faced by the State, and employment potentiality, should be accorded due emphasis. The University authorities appreciated this stand and agreed to the various suggestions made by us towards consolidating the existing facilities rather than spreading the limited resources thinly.

44. Located far from the hustle and bustle of overcrowded cities, the Himachal Pradesh University has a unique advantage of environment of unparalleled tranquillity and peace, conducive to undisturbed pursuit of knowledge and self-development and acquisition of worthy ideas of service to the people. This University has an important role to play in serving as the conscience of the nation, and should function not primarily to give what it wants, but what it needs. This newly developing University is in a happy position to benefit from the experience of older Universities in the development of academic life.

45. The effectiveness of postgraduate teaching, concentrated in University teaching departments, depends mainly on the soundness of the undergraduate teaching which is imparted in about a score of affiliated colleges spread over the State. The State Government is appreciative of this stand and wants to preserve the present position intact. Through the provision of correspondence courses, the University has obviated the need of starting new undergraduate colleges for arts subjects, so as to concentrate all efforts upon raising the standard of existing undergraduate classes. It would be useful if each college has a small development panel which draws up its plan of development and determines the essential priorities.

46. Although Himachal Pradesh ranks fifth amongst the States in the country, in so far as per capita income was concerned, yet, the total resources of the State were meagre because of its small size. This was the limiting factor in planning the development of higher education in the Pradesh. The State Government incurred an expenditure of about Rs. 120 lakhs on University Education during the fourth plan. In its fifth five year plan for educational development of Rs. 1130 lakhs, the Himachal Pradesh Government has provided for an allocation of Rs. 150 lakhs (i.e. 13.3% of the total) to be distributed as (i) development of Himachal Pradesh University Campus : Rs. 50 lakhs, (ii) expansion of facilities Rs. 24 lakhs, (iii) improvement of facilities and appointment of additional staff in the existing colleges : Rs. 36 lakhs and (iv) construction of accommodation and hostel in colleges : Rs. 40 lakhs. The State Government also proposes to institute 50 scholarships of the value of Rs. 40 per month every year for degree students, and 20 scholarships of the value of Rs. 50 per month every year for deserving postgraduate students. The State Education Department assured that the matching share will be made available, and within the limited resources, no project will be allowed to suffer due to paucity of funds.

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### STUDENT WELFARE AND DISCIPLINE

47. Like many Universities in the North, the Himachal Pradesh University was not entirely free from student unrests, though such cases were very few and far between. Otherwise the general tone of discipline in the campus was good. The committee was happy to note that under the direction of the present Vice-Chancellor and in line with the recommendations of the Gajendragadkar Committee on Governance of Universities and Colleges, the Himachal Pradesh University was the first to appoint ten student representatives on its court. In addition, the students council with 44 members from the University teaching departments and affiliated colleges (with two teacher members, one of them is the Chairman of the Council) is concerned with making recommendations to the executive and academic councils on matters (i) effecting the academic work of students, (ii) Corporate life of students in the University, (iii) Cocurricular and extra activities, and (iv) rules regarding discipline, welfare, sports, literary and departmental societies, management of students' homes, N.C.C., N.S.S. etc. There is also a Students Central Association at the Centre of Postgraduate Studies, Sirala.

48. The committee met the representatives of the Central Students Association of the University. The discussion indicated the total absence of facilities like non-resident students centre, cafeteria, health centre, play fields, stadium, students aid fund, auditorium, gymnasium; inadequate hostel accommodation, textbooks, library reading seats, U.G.C. fellowships etc. Regarding the Students Aid Fund the University may utilise the assistance available to it under the U.G.C. scheme. To supplement the local transport facilities, the University may consider the desirability of taking up the matter with railway authorities for operation of shuttle train between Summer Hill and neighbouring areas.

### PART V - MAIN RECOMMENDATIONS

49. The Himachal Pradesh University came into existence only four years ago. Starting from scratch, the university has not so far been able to provide regular building accommodation in which to house the various teaching departments, library, laboratories, teachers and students. Some other necessary facilities like the central workshop, gas plant, animal house, glass house, botanical garden, health centre, printing press, students study centre, play grounds, gymnasium, auditorium etc. are absent at present. Whatever make shift arrangements have been made by putting up temporary structures or by hiring and acquiring buildings are not satisfactory for the efficient and effective functioning of the University. Secondly, the entire academic programme of the University is receiving a set back for want of regular building. We are convinced of the genuine needs of the University, and we very strongly urge the University Grants Commission not to insist on the overall limit fixed under various priorities for this newly established and fast developing University, and agree to the recommendations which we consider as the bare basic minimum under the first priority programmes for the effective functioning of the university. Due to financial constraints imposed on us, we have not been able to consider the development programmes placed before us under priorities two and three. Unless the recommendations made below are approved by University Grants Commission and executed efficiently by the Himachal Pradesh University, the conditions are not likely to improve substantially. On the other hand, the difficulties being experienced by the University would increase because the strength of the students is likely to rise in fifth plan.

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DIVISION OF NATURAL AND EARTH SCIENCES

Physics Department

50. Established in 1965 as a part of the Regional Centre of Postgraduate Centre of the Panjab University, the Physics Department is functioning in too small a building in Manse Building at the Mall, Simla, without adequate essential equipment and laboratory facilities for postgraduate teaching and research. The department has 28 students in M.Sc. classes with a teaching strength of eight teachers : One Professor specialising in theoretical elementary particle physics, three Associate Professors whose specialities are experimental solid spectroscopy, field theory and solid state theory, and four Lecturers who work in particle physics theory, theoretical nuclear physics, solid state theory and experimental nuclear physics. (The Professor is on leave and instead, the work is being carried on by the appointment of research scholar-cum-teacher). The committee feel that this structure does not show a proper balance between theory and experimental work. Also far a small department people from too many different areas have been recruited. It is not conducive to forming viable groups. The department may endeavour to build one coherent group which has within it both theorists and experimentalists, who will catalyse each others activity. One area in which such a group could be suggested is solid state electronics; the department could then run a device-biased M.Sc. course. Applied optics could be other such area. The M.Sc. courses could be reoriented so as to make them job-oriented without sacrificing the training of the students as good physicists. The staff of the department published 37 research papers/articles during the fourth plan. Now that the department would be shifting to its new building shortly, laboratories should be so equipped so that laboratory training could be modernised and given an orientation towards device physics. The committee recommends that an allocation of Rs.2 lakhs is necessary for equipment and Rs.1 lakh for the books and journals of this department. The post of the laboratory technician approved during the fourth plan and which was not filled may be provided and filled.

Central Workshop

51. In order to support the teaching and research programmes good workshop facilities will have to be provided. This will serve as a central workshop for all the departments of the university and will provide facilities for maintenance and repair of equipment in order to ensure maximum use. The other central facility which could be developed could be a precision and analytic instruments unit in due course. We understand provision has already been made to provide room for the proposed workshop in the basement of one the science blocks. An allocation of Rs. one lakh is the minimum that could be provided for the purchase of equipment for this workshop.

Chemistry Department

52. Like the Physics department, the chemistry department also came into being in 1965, as a part of the Regional Centre of Postgraduate Studies of the Panjab University. It is functioning in the Manse Building, the Mall, Simla. The upper floor of the building is the library of the department and the Gandhi Bhavan used as a study centre also. The department has a sanctioned strength of 3 Professors, 3 Associate Professors, and 4 Assistant Professors. One post of the Professor is

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not filled, instead an additional Lecturer has been appointed. In addition, 4 Research Scholars are assisting in the teaching work of the department. There are 41 students in M.Sc. Part I and Part II and 10 students/research scholars are doing M.Phil and Ph.D. work. During the fourth plan the department published 31 research papers/articles. With the shifting of the department to the new science block shortly, there will be urgent need for providing equipment for the laboratories. An allocation of Rs. 3 lakhs is recommended for equipment and Rs.1 lakh for books and journals. The post of laboratory technician, not filled during the fourth plan may be filled soon.

#### Gas Plant

53. With the shifting of the science departments to the new buildings in Summer Hill, the first need of the departments should be a Gas Plant without which the University has been carrying out the teaching and research work in the various science departments. This gas plant will be able to serve not only the chemistry department, but all the other science departments also. However, it will be managed and looked after by the Chemistry Department. We recommend a grant of Rs. two lakhs for the installation of Gas Plant.

#### Mathematics Department

54. The Mathematics Department provides teaching and research facilities for M.A., M.Sc. and M.Phil courses. There are 18 students in M.A./M.Sc. and 3 students in M.Phil/Ph.D. The staff strength is nine : 2 Associate Professors, 4 Assistant Professors and 3 Research Scholar-cum-teacher. The post of the Professor is lying vacant. The department needs calculating machines and research literature. An allocation of Rs.20,000/- for equipment (electronic desk calculator, etc.) and Rs.50,000/- for books and journals is recommended.

#### BIOLOGICAL SCIENCES DIVISION

##### Bio-Sciences Department

55. The Bio-Sciences department was set up about a couple of years ago. The department for the present provides training and research facilities for M.Sc. degree in Botany and Zoology. Each of these disciplines has 23 students - 21 in M.Sc. and 2 in M.Phil/Ph.D. The department has a staff of nine numbers consisting of one Professor, one Associate Professor, six Assistant Professors and one Research Scholar. The staff published 30 research papers within a couple of years.

56. The fourth plan visiting committee made the following recommendation in respect of this department :-

"It is not enough to make the graduates conscious of the diversity and abundance of the flora and fauna, but they must be equipped in the art and practice of conservation and acceleration of production. These objectives cannot perhaps be achieved by setting up conventional departments of Botany and Zoology with little inter-communication between them especially when half of the courses are common to them".

57. Though the purpose of setting this department was to give a composite degree of life sciences, the University is now offering separate M.Sc. degree in

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Botany and Zoology. With the limited staff available no justice can be done to either of the subjects. The committee, therefore, suggests that the University may discontinue offering separate M.Sc. degree in Botany and Zoology separately and may consider offering an M.Sc. degree in Life Sciences.

58. Taking into consideration the flora and fauna of the region, it would be of regional interest to orient research and teaching directed towards studies on Ecology and high altitude of physiology of the Fauna and flora of the region. Similarly, it would be most useful to initiate studies on Ethology of the animals of this region. The Zoological Survey of India has a regional station in Solan, and is expanding its activity to cover Ecology and Ethology. It would be in the best interests of the University as well as that of the Zoological Survey of India to coordinate the field work in these areas to save money and effort.

59. It would be most useful from the point of view of academic interaction, if the staff of the department can maintain contacts with other Universities not only in the northern region but also with any University within the country with which common programmes of research can be established. This would be particularly useful for the members of the staff to utilize such equipment and facilities which they need but are at present not available in Simla. It is further suggested that the department may initiate such contacts with the Centres of Advanced Study in Zoology and Botany of the Delhi University. Similar contact may also be established with Central Potato Research Institute, Simla and Central Research Institute, Kasauli.

60. Additional courses may be introduced either in the second year or as a part of the M.Phil programme in the following subjects : (a) Fruit Technology, (b) Taxidermy, (c) Poultry, (d) Fisheries, and (e) Laboratory Techniques. These courses will be useful in providing vocational training to such students who may not pursue further career in research and teaching.

61. We recommend the two additional posts of lecturers may be provided, to the department, and the post of technician provided during the fourth plan may be filled from U.G.C. funds.

#### Animal House and Glass House

62. The department needs in Animal House and Glass House with temperature control for work. We recommend that an allocation of Rs. 4 lakhs may be made for the purpose.

63. The University may utilise local/State Government resources for the establishment and development of botanical garden which is also so very necessary for providing adequate facilities for training and research. One post of instrument mechanic and one post of Prerbarium-cum-museum-keeper may be filled from State Government funds.

#### GENERAL SCIENCES

##### Building for Bio-Sciences and Mathematics Departments

64. The fourth plan visiting committee recommended the construction of Science Blocks for providing facilities for teaching and research in Chemistry,

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Physics, Biosciences and Mathematics. The whole construction was to be completed in two phases. The University, however, undertook the Phase I to provide an area of 35000 sq.ft. (Physics 15000 sq.ft. and Chemistry 20000 sq.ft.), by constructing one block as a whole and one floor of the second block. This work is nearing completion. In fact, the construction of Phase II comprising Bio-Sciences Department (16000 sq.ft.) and Mathematics Department (5000 sq.ft.) is in progress. The space for Central Workshop has been provided by creating additional accommodation in the basement. This building should be completed at maximum speed so that the Science Departments could be shifted from the next session. The cost of the Phase II is estimated at Rs.16 lakhs. A sum of Rs. 8 lakhs may be provided on usual sharing basis.

#### Furniture and Fittings in Science Laboratories

65. We were intimated that the University Grants Commission provides assistance for furniture, fittings and fixtures in Science Laboratories up to 20% of the civil cost of construction. The University, accordingly, pleaded that the Science Blocks were nearing completion and that there was an urgent need for providing for laboratory fittings and furniture on priority basis, so that these laboratories could be usefully utilised for teaching and research. We are convinced that this is an urgent as well as necessary requirement even though we have separately recommended allocation of Rs.9.20 lakhs for equipment in the various Science Departments and the Central Workshop. Due to scarcity of resources and tight financial position, we recommend that a sum of Rs. 5 lakhs may be provided for the purpose during the fifth plan period.

#### Collaboration between Science Departments

66. Discussions with the heads of the various Science Departments indicated that at the M.Phil stage a great deal of collaboration and coordination in teaching was possible amongst these departments. A number of courses which one of the department offers for its M.Sc. degree programme could profitably be used by M.Phil course students of other departments. It would, of course, be necessary to mould the courses taught by another department so that they remain relevant to the students taking the course. Wherever necessary tutorials should be arranged to supplement the courses. The departments should explore the areas where they could collaborate in research. Such collaborative programmes will create an atmosphere for an effective use and establishment of Central Research Facilities in the University. The University is establishing a Central Workshop, Gas Plant and Electronic Calculator Facilities as Central facilities.

#### HUMANITIES DIVISION

##### Departments of English, Hindi and Sanskrit

67. The Humanities Division consists of the departments of English, Hindi and Sanskrit. The Department of English consisting of two associate Professors, three Assistant Professors and one Research Scholar provides teaching facilities to 56 students in M.A. and 9 students in M.Phil course. The faculty members published 11 research papers.

With one Professor, one Associate Professor, two Assistant Professors and one Research Scholar, the Department of Hindi caters to 23 students in M.A. and 6 scholars in M.Phil course. The faculty published 10 research papers/articles.

In the Department of Sanskrit there are 32 students - 27 in M.A. and 5 in M.Phil course, the number of teachers being seven viz. one Professor, three Assistant Professors and three Research scholars-cum-teachers. As many as 16 research papers were published by the staff members during 1972-74.

Each of these department pleaded for the post of an Associate Professor who could teach Linguistics. The committee recommends that one post of Associate Professor, an Expert in Linguistics and Grammar, may be provided for all these three departments combined. He will be able to teach Linguistics courses for B.Ed. and M.Ed. students also. A total sum of Rs. 30,000/- is also recommended for the purchase of books and journals for these departments.

#### BEHAVIOURAL SCIENCES DIVISION

68. At present, the departments of Education, History and Political Science constitute the Division of Behavioural Sciences.

#### School of Education

69. . . . The University School of Education was constituted in 1972-73, on transfer of the Government College of Education, Simla to the University. At present the School provides B.Ed. courses to 66 students, M.Ed. courses to 3 students and M.Phil courses to 3 students, i.e. 72 students in all. The School offers B.Ed. and M.Ed. courses both regular and through correspondence. There are 10 teachers - one Professor, one Associate Professor and eight Assistant Professors. The Committee noted that on the basis of the recommendation of a committee appointed for the purpose, the Commission has already provided for one Professor, two Readers, four Lecturers, books and journals (Rs. 50,000/-), equipment (Rs. 37,500/-), Language Laboratory (Rs. 94,000/-), furniture (Rs. 5,000/-), research publications (Rs. 10,000/-) and Seminars (Rs. 5,000/-). This provision is available up to 1978-79. The Language Laboratory when purchased will be used to strengthen teaching of Hindi and English. The committee was informed that the University did not noted to discontinue M.Ed. course as was recorded in the report of the committee referred to above. The University wanted to continue both B.Ed. and M.Phil courses. The intention was to diversify specialisation at both levels.

70. The University has made additional proposals for building accommodation, a three storey block for the school at a cost of Rs. 8.60 lakhs, Rs. 3.50 lakhs for equipment, Rs. 1.50 lakhs for books and journals and staff (one Professor, two Readers and three Lecturers) cepting to Rs. 6.05 lakhs. This additional demand was considered in the context of the overall need of the University. Since the total amount available was severely restricted by present circumstances, it was not possible to allocate any funds in addition to the amount already sanctioned for the School of Education.

#### History Department

71. The M.A. and M.Phil curriculum of the History Department is of a sufficiently higher standard. The department provides instruction in 16 courses (12 in Indian History and 4 in history of other countries). The department has

one Professor, two Associate Professors, three Assistant Professors and one Research Scholars to teach 43 M.A. students and 5 M.Phil scholars. In addition one Professor and one Lecturer are taking classes in honorary capacity. The staff published 8 research papers in 1973-74. An allocation of Rs. 15,000/- is recommended for the purchase of books and journals.

#### Political Science Department

72. The Department of Political Science has a teaching staff of one Professor, three Associate Professors, two Assistant Professors and two Research Scholars. There are 51 students in M.A. classes and 14 scholars pursuing courses in M.Phil/ Ph.D. during the current session. The staff members published 10 research articles. We recommend a sum of Rs. 15,000/- for books and journals for the department.

#### Psychology Department

73. One post of Professor, one of Associate Professor and two posts of Assistant Professors were sanctioned by the Commission for this department during the fourth plan period. Due to lack of accommodation the establishment of this department was deferred. One post of the Associate Professor was filled up and the incumbent was utilised for teaching and guidance in the departments of Business Administration and Education. The University revived the demand for filling up of fourth plan sanctioned posts, but in view of paucity of funds, it was advised to defer the establishment of this department further to the next plan.

#### Music Department

74. This department was taken over by the University from the State Government in 1972-73. The department consists of three Teachers, not even of the rank of Assistant Professors, preparing 21 students for M.A. degree courses. The committee could not recommend the continuance of this department, at this arrangement was most unsatisfactory. The University may approach the State Government, it is intended to continue this department.

#### Division of Economic Sciences

75. The Division of Economic Science, at present, consists of three departments viz. (i) Agricultural Economics, (ii) Business Administration and (iii) Economics.

#### Department of Agricultural Economics

76. The Department of Agricultural Economics, started in 1972-73, imparts M.Sc. degree in Agricultural Economics and provides courses in (i) Farm Management, (ii) Land economics, (iii) production economics and linear programming relating to agriculture, (iv) agricultural marketing, (v) agricultural finance, (vi) macro-economics, (vii) econometrics, (viii) agricultural price analysis and two elective courses, (ix) and (x) in any one group out of three groups : Group A - Agricultural business management, Group B - Agricultural policy and Group C - Agricultural marketing, research and management. In addition three common courses viz. (i) Basic Mathematics, (ii) Micro Economics and (iii) Statistics and Research methods are also provided. The department is manned by one Associate Professor, one Assistant Professor and two Research scholars. The present enrolment is 22 - 16 students in M.Sc. (Agricultural Economics) and 6 research scholars in M.Phil courses.



77. We were informed that for the M.Sc. (Agricultural Economics) course, the department of Agricultural Economics, admitted students with B.Sc. degree in Agriculture, this meant that the students are required to have a good base in agriculture, and with this as base they are further trained in agricultural economics, alongwith, economics, statistics and business management. We were also apprised of the fact that the department of agricultural economics at Simla, was drawing locational advantage of the existence of the State Directorates of Agriculture, Horticulture, Animal Husbandry, Agro-Economic Research Centre, etc., with which this department has been collaborating. Our attention was drawn to the following recommendations made by Dr. A.S.Kahlon, Agricultural Commissioner, a one man commission appointed by the Vice-Chancellor, in this regard :

"According to a recent decision of the Himachal Pradesh University most of the postgraduate work in Agronomy, Soil Sciences and Horticulture has been shifted to the Palampur Campus, where as most of the postgraduate teaching and research work in Entomology, Plant Pathology will be concentrated at Solan Campus. Agriculture Economics was to derive strength not only from Agronomy or soil sciences but practically from all agricultural sciences, including agricultural engineering. Therefore, the location of agricultural economics at one of the agricultural campuses, whether at Palampur or at Solan will not expose the students of agricultural economics to all the major disciplines of agriculture, because about 50% of other major disciplines are located at Palampur and the remaining 50% at Solan. In spite of these constraints, I find it difficult to believe that agricultural economics in the Himachal Pradesh University can flourish without strengthening teaching and research programmes in agricultural economics in agricultural complex at Solan and Palampur Colleges of Agriculture".

78. We, therefore, feel that the courses provided by the Department of Agricultural Economics, have Agricultural orientation and its development should, therefore, be looked after by I.C.A.R.

#### Department of Business Administration

79. The department of Business Administration was started in 1971-72. At present it has on its rolls 40 students in Master in Business Administration course. The staff strength is 1 Professor, 2 Associate Professors and 2 Assistant Lecturers. It was understood that the University Grants Commission has not accorded its approval to the establishment as well as development of this department. The question is still under the consideration of University Grants Commission in collaboration with All India Council for Technical Education. This committee, therefore, will not make any recommendation in this regard.

#### Department of Economics

80. The Department of Economics imparts courses of instruction in (i) Statistics, (ii) Micro-economics, (iii) Macro-economics, (iv) International economics, (v) Public finance, (vi) Industrial economics, (vii) Regional Economics, (viii) Agricultural Economics, and (ix) A Qualifying course in basic Mathematics. As against the approved strength of 9 teachers ..

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3 Professors, 2 Associate Professors and 4 Assistant Professors, the department has at present on its staff 1 Associate Professor, 4 Assistant Professors and 2 Research Scholars-cum-teachers. The present enrolment in the department is 72 students in M.A. and 6 research scholars in M.Phil/Ph.D. courses. The accommodation allotted to the department is inadequate. It is expected with the vocation of the Manse building on transfer of the Science departments to the new building, the department of Economics may be provided more accommodation. One post of Professor of Economics was filled up, this is, however, now lying vacant. Another post of Professor was filled in the department of Business Administration. The department has not yet been approved by the University Grants Commission. The third post of Professor, it is understood, was filled by appointing an Associate Professor in the department of Agricultural Economics.

81. We recommend that one post of Associate Professor and an allocation of Rs.50,000/- for books for the department of Economics may be sanctioned.

#### LEGAL STUDIES DIVISION

##### Department of Legal Studies

82. The Department of Legal Studies offers six-semester LL.B. courses to 407 students in two shifts, with a staff of one Professor, three Associate Professors and five Associate Professors (including two part-time Lecturers). Ten research papers/articles were published by the faculty members in 1972-74. 18 different courses in each shift are being taught. The University has proposed to start LL.M. courses and asked for additional staff for the purpose.

83. The Department is housed in a dilapidated building known as Ava Lodge, which houses three more departments viz., Education Department, Directorate of Correspondence courses and Music Department. The present accommodation is not only utter by inadequate but most unsatisfactory. The library of the department shares accommodation with music department. The library of the department has about one thousand volumes. Unless satisfactory arrangement for providing facilities for LL.B. courses are made, the University should not think of starting LL.M. courses at least during the current plan. As soon as the Physics and Chemistry departments are shifted to the new Science Blocks, the Law Department may be shifted to Gandhi Bhavan on the Mall. For the present, the University should concentrate on developing the library of the department. The committee recommends a sum of Rs.1.50 lakhs for the purchase of books and journals for the library of this department.

##### University Library

84. At present the University Library has 46000 volumes on its stock. It subscribes to 569 foreign and Indian journals. Of these 39000 volumes are stocked in the Central Library and the remaining 7000 volumes are in departmental libraries. The Central Library is now full to the capacity. With the increase in the University enrolment in various courses from about 1041 to 2000 students and scholars during the fifth plan, the annual addition of books and journals to the library will also increase from 7000 to 10000 volumes per year. M.Phil courses have been introduced in most of the subjects. There is an urgent need for building a bigger library building which could stock

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about three lakh books and provide reading seat to about 200 students. The University has proposed a building costing Rs.15 lakhs in the first phase. The committee very strongly recommends its acceptance and an allocation of Rs.7.50 lakhs as U.G.S. share on usual sharing basis. In addition an amount of Rs.80,000/- may be provided for Xerox facilities, reprographing facilities, microfilms and microfilm-reader. A further grant of Rs.1.40 lakhs may be made for books and journals for the Central Library, in addition to that recommended for various departments.

85. As far as Scientific and research journals are concerned, back volumes for the last five years only may be purchased. For older references microfilms may be procured.

#### GENERAL

86. The importance for active collaboration and ~~close~~ academic liaison with institutions like Indian Institute of Advanced Study, Simla; State Institute of Language, Simla, Central Potato Research Institute, Simla; Central Research Institute, Kasauli etc., need not to be overemphasised. The staff of these institutes could be considered as honorary staff of the University departments. Some of these centres could also be recognised as University Centres of research for Ph.D. degree etc. The University department in Simla should also collaborate with the agricultural complexes at Solan and Palampur.

87. The University may set up development committee/development panel for the future planning and development of the University, so that the University could develop on most ~~of~~ and lines within the limited resources, made available to it.

88. The University may encourage its staff to make maximum use of the faculty improvement programmes, such as, Summer Institutes, Seminars, National Associateships, Study Leave, Faculty Exchange, Teacher fellowships etc. In view of the ideal climatic and natural conditions, the University may organise summer institutes, seminars etc. in summer months. Under the faculty exchange and teacher fellowship programmes, visiting Professors could be invited to arrange a series of lecturers/workshops of various durations.

89. We recommend a non-recurring grant of Rs.2 lakhs for the establishment of a University press including machinery and equipment, on the usual sharing basis of 50:50.

90. There is an urgent need for the establishment of a students study centre. During the fourth plan, the Commission provided outside the plan provision non-recurring grant upto Rs.30,000/- for books and stacks and recurring grants upto Rs.13,000/- for staff and contingencies for five years. We understand that the scheme is under review. The University may utilise the UGC assistance that may be made available under the scheme.

91. An other urgent need is the establishment of a University Health Centre. The University Grants Commission provided to the Universities, outside the fourth plan allocation, non-recurring grant upto Rs.1.50 lakhs for building and equipment (on 75:25 basis), and recurring grant upto Rs.30,000/- per annum for salaries of staff, for five years (on 50:50 basis). The scheme is under

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review. We recommend that the University may be given grant for the purpose during fifth plan period.

92. There are five degree colleges in Simla, besides the University Centre, and yet there is not a single play ground for hockey, football or cricket etc. We are informed that the University selected a site but it will cost Rs.10 lakhs to develop it into a multipurpose play ground. The University Grants Commission assists up to Rs.15,000/- only outside the plan for the development of playground. The amount required is abnormally high (mainly due to area being a hill tract) and yet if necessary expenditure is not incurred now, the situation will remain unaltered and the cost will go on increasing. The University Grants Commission may consider this request sympathetically outside the plan. Similarly the request of the University for establishment of gymnasium, auditorium may also be considered by the University Grants Commission, outside the plan allocation.

93. The University Grants Commission provides an amount equal to the collections made by the University for the establishment of students aid fund subject to a maximum of Rs.25,000 per annum. The University may approach the University Grants Commission in this regard. This is outside the plan provision.

94. Separate University Grants Commission committees will assess the requirements and make their recommendations for the development of correspondence courses, and the development of department of Business Administration.

95. The University made a strong plea for the construction of residences for the wardens for hostels for boys and girls. Scarcity of financial resources has restricted us making any recommendations. We, however, recommend that for the present two or three rooms from the present hostel accommodation may be set up apart for the residences of the hostel wardens.

FINANCIAL SUMMARY

96. The following is the summary of the financial implications of the various recommendations made by the visiting committee during the fifth plan period :

Summary of Financial Implications of Recommendations made for the fifth plan period (1974-79)

Departments	Recurring					Non-Recurring			Grant		
	Teaching Staff					Equip- ment	Books	Building		Total	
	P	K	L	O	T						UGC share
(Rupees in lakhs)											
1. Sciences	-	-	2	3	5	2.10	11.20	3.50	17.00	31.70	33.80
2. Humanities & Social Sciences	-	2	-	-	2	1.60	-	2.60	-	2.60	4.20
3. General	-	-	-	-	-	-	2.80	1.40	15.76	19.96	19.96
	-	2	2	3	7	3.70	14.00	7.50	32.76	54.26	57.96

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Note : The Commission has already released Rs.5.00 lakhs for equipment and Rs.3.00 lakhs for books. This is included in the above summary.

Spill over	Rs.42.45 lakhs
Fifth Plan Schemes	Rs.57.96 lakhs
Total :	<u>Rs.100.41 lakhs</u>

ACKNOWLEDGEMENT

97. The Committee would like to record its thanks and appreciation of the cooperation offered to it by the State Education Minister, State Education Directorate and the members of the University. The free and frank discussions with the Vice-Chancellor, the State Education Minister, the teaching staff, students and other authorities enabled the committee to make its observations in the short time at its disposal. The committee hopes that its recommendations will be regarded in the spirit in which they are made as suggestions for the development of an institution which may develop into a great university.

Himachal Pradesh University

Financial Implications of the Recommendations of Fifth Plan  
Visiting Committee (1974-79)

S.No.	Department/ Scheme	Recurring					UGC Share (Cost)	Non-Recurring			Grand Total (R + NR)	
		Teaching Staff						Equip- rent	Books	Buil- ding		
		P	R	L	O	T						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
( Rupees in Lakhs - )												
<b>A. Sciences</b>												
1.	Physics	-	-	-	1*	1*	0.40	2.00	1.00	-	3.00	3.40
2.	Chemistry	-	-	-	1*	1*	0.40	3.00	1.00	-	4.00	4.40
3.	Bio Sciences	-	-	2	1*	3	1.30	3.00	1.00	8.00**	12.00	13.30
4.	Mathematics	-	-	-	-	-	-	0.20	0.50	-	0.70	0.70
5.	Central Workshop	-	-	-	-	-	-	1.00	-	-	1.00	1.00
6.	Gas Plant	-	-	-	-	-	-	2.00	-	-	2.00	2.00
7.	Animal House, Glass House & Temperature Regulation Device	-	-	-	-	-	-	-	-	4.00	4.00	4.00
8.	Furniture fitting Fixtures of Science Laboratories (Phase I+II)	-	-	-	-	-	-	-	-	5.00+	5.00+	5.00
Total (A)		-	-	2	3	5	2.10	11.20	3.50	17.00	31.70	33.80
<b>B. Humanities and Social Sciences</b>												
9.	Languages - Hindi, Sans- krit & English	-	1	-	-	1	0.80	-	0.30	-	0.30	1.10
10.	Economic Sciences (Economics only)	-	1	-	-	1	0.80	-	0.50	-	0.50	1.30
11.	History	-	-	-	-	-	-	-	0.15	-	0.15	0.15
12.	Pol. Science	-	-	-	-	-	-	-	0.15	-	0.15	0.15
13.	Legal Studies	-	-	-	-	-	-	-	1.50	-	1.50	1.50
Total (B)		-	2	-	-	2	1.60	-	2.60	-	2.60	4.20

Contd.....

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
<u>C. General</u>												
14.	Central Library	-	-	-	-	-	-	0-80++	1.40	7.50	9.70	9.70
15.	Hostel for 60 boys	-	-	-	-	-	-	-	-	4.72+++	4.72+++	4.72+
16.	Hostel for 30 girls	-	-	-	-	-	-	-	-	3.54+++	3.54+++	3.54+
17.	University Press	-	-	-	-	-	-	2.00	-	-	2.00	2.00
	Total (C)	-	-	-	-	-	-	2.80	1.40	15.76+++	19.96	19.96
	Grand Total	-	2	2	3	7	3.70	14.00\$	7.50\$	32.76	54.26	57.96

- \* Technician/glass blower
- \*\* Composite building for the department of Bio-Sciences and Mathematics
- \*\*\* Already provided for in the basement of Science Blocks
- + Furniture and fittings in all Science Laboratories
- ++ Xerox microfilm reader
- +++ Already approved before the visit of the committee
- \$ The Commission has already released Rs.5.00 lakhs for equipment and Rs.3.00 lakhs for books.

HIMACHAL PRADESH UNIVERSITY

AFFILIATED DEGREE COLLEGES : 1974-75

1. Privately managed

1. Goswami Gansh Dutt College, Baijnath (Kangra)
2. National College, Amb (Distt. Una)
3. St. Pede's College, Simla
4. Shri Vishnu Sanatan Dharam College, Bhatoli, Distt. Una (P.O. Naya Nangal)
5. Wazir Ram Singh Memorial Public College, Dehri, P.O. Rehan, Distt. Kangra
6. Thakur Kesha Dass College, Dhaliara, P.O. Dehra, Distt. Kangra (HP)
7. D.A.V. College, Daulatpur Chowk, Distt. Una (HP)
8. Rana Padam Chand S.D. Bhargava College, Simla.

II University College

9. Himachal Pradesh University Evening College, Simla.

III Government Colleges

10. Government College, Rampur-Bushahr (Distt. Simla)
11. Government College, Dharamsala (Kangra)
12. Government College, Nahan
13. Government College, Hamirpur
14. Government College, Kulu
15. Government College, Solan
16. Government College, Bilaspur
17. Government College, Chamba
18. Government College, Simla
19. Government College, Una
20. Government College, Mandi
21. Government College, Nalagarh (Distt. Solan)
22. Government Medical College, Simla

Associated Institutions

1. Government Sanskrit Garakmath Kalisthan Vidyalaya, Nahan
2. Government Sanskrit Vidyalaya, Sundernagar
3. Government Nehru Sanskrit College, Simla
4. Arun Sanskrit Vidyalaya, Mandi (Private)
5. Sanskrit Vidyalaya, Solan
6. Government Sanskrit College, Kiartu Madhan (Distt. Simla)
7. S.D. Sanskrit Vidyalaya, Ghumarwin
8. S.D. Sanskrit Pragya Pathashala, Dhogi, Kangra
9. Vishisht Vidyapeeth, Tungesh, P.O. Theog, Distt. Simla

Recognised Institutions

1. Central Patato Research Institute, Simla
2. Central Research Institute, Kasauli.



HIMACHAL PRADESH UNIVERSITY

Enrolment and Teachers in University Teaching Department : 1974-75

S.No.	Faculty/ Subject	Enrolment				Teaching Staff				
		Under gradu- ate	Post grad- uate	Research M.Phil/ Ph.D.	Total	Prof.	Associ- ate Prof.	Assis- tant Prof.	Rese- arch Scho- lar	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
<u>A - Faculty of Arts</u>										
1.	Economics	-	72	6	78	-	1	4	2	7
2.	English	-	56	9	65	-	2	3	1	6
3.	Hindi	-	23	6	29	1	1	2	1	5
4.	History	-	43	5	48	1	2	3	1	7
5.	Pol.Science	-	51	14	65	1	3	2	2	8
6.	Sanskrit	-	27	5	32	1	-	3	3	7
7.	German	-	-	-	14*	-	-	1	-	1
8.	Russian	-	-	-	2*	-	-	1	-	1
9.	Music	-	21	-	21	-	-	3	-	3
Total (A)		-	293	45	354*	4	9	22	10	45
<u>B - Faculty of Science</u>										
10.	Botany	-	21	2	23	1	1	6	1	9
11.	Zoology	-	21	2	23	-	-	-	-	-
12.	Chemistry	-	41	10	51	2	3	4	4	13
13.	Mathematics	-	18	3	21	-	2	4	3	9
14.	Physics	-	28	-	28	-	3	4	1	8
Total (B)		-	129	17	146	3	9	18	9	29
<u>C - Faculty of Education</u>										
15.	Education	66	3	3	72	1	1	8	-	10
Total (C)		66	3	3	72	1	1	8	-	10
<u>D - Faculty of Legal Studies</u>										
16.	Legal Studies	407	-	-	407	1	3	5	-	9
Total (D)		407	-	-	407	1	3	5	-	9
Total (A+B+C+D)		473	425	65	979	9	22	53	19	103

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1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
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E - Faculty of Commerce & Business Administration

17. Business Administration	-	40	-	40	1	2	2	-	5
Total (E)	-	40	-	40	1	2	2	-	5

F - Faculty of Agriculture

18. Agriculture	255**	57	33	345	6+	26+	60+	112+	214+
19. Agricultural Economics	-	16	6	22	-	1	1	2	4
Total (F)	255	73	39	367	6	27	61	114	218

\* Excludes Department of Correspondence Courses and University Evening College, Simla.

\*\* Includes 16 students in Certificate Courses in German (14) and Russian (2).

\*\*\* Includes 81 students in B.Sc. (Pure Science at Palampur).

† Includes extension staff also.

## VOLUME-II

### Report of the Visiting Team to the Agricultural Complex, Himachal Pradesh University for the Fifth Year Plan Period (1974-75-1978-79)

A Joint visiting team of U.G.C. and ICAR was constituted to assess the Fifth Five Year Plan requirements of the Himachal Pradesh University including the agricultural complex. From the agricultural side, the ICAR members consisted of Dr. Mukhtar Singh, Director, Central Potato Research Institute, Simla, Dr. C. Prasad, A.D.G.(Edn.), ICAR and Dr. S.C. Lutt, A.D.G.(ASQ), ICAR. The joint team visited the Himachal Pradesh University from November 7 to 9, 1974.

During this visit the team visited Agricultural Campus, Solan, University Headquarters, Simla and other colleges there; Mashobra Research Station near Simla; and Agricultural Campus at Palampur. The team had very good discussion at Solan, Simla, and at Palampur with the Vice-Chancellor and all other concerned faculty members of the University. The team, keeping in line with the objectives, did not visit 21 research stations located all over the State; a district-wise distribution of these research stations and the colleges are shown in the map attached.

The State of Himachal Pradesh has a population of 5.5 millions with a geographical area of 55673 sq./kms. and the density per sq.km being 62 only. There are almost 17,000 villages with 93 per cent rural population and 85 per cent of the population dependent on agriculture.

The altitude of the State varies from 2500 to 21,000 feet above the sea level. The 12 districts of the State are divided into two regions, Southern and Northern. The former is almost as hot as the plains of Punjab while the latter region has a temperate climate varying from pleasant summer to extreme cold winter. The territory is normally divided into three zones - Outer Himalayan (Rainfall 60" to 70"), Inner Himalayan (Rainfall 30" to 40") and Alpine Pastures (5 to 6 months under snow). The average rainfall is about 60". The Kangra district in which Palampur Campus is located received the maximum rainfall.

Over 18% of the land is the net area sown, of which over 50% of the area is sown more than once. The principal crops of the State are rice, wheat, potato, maize, sugarcane, ragi, barley, rape, mustard and ginger. The State has an area of 97,000 acres under fruit cultivation, the apple being the prominent one. The State has the potentiality of developing forests; over 38% of the total area falls under forest which needs to be scientifically exploited.

#### Agricultural complex

The Himachal Pradesh University was established as an Multi-Faculty University with the Faculty of Agriculture organised on the pattern of an Agricultural University with all the functional and financial autonomy. The teaching, research and extension education functions of the Faculty of Agriculture was to be carried on at the two agricultural campuses - Palampur and Solan. They jointly represent the agricultural complex. With the passing of

the Himachal Pradesh Act No.17 of 1970, the Himachal Pradesh University came into being with effect from 22nd July, 1970. The University inherited the Palampur campus from the Punjab Agricultural University, Ludhiana and the Solan campus from the Punjab University, Chandigarh. The various research and extension centres of the Punjab Agricultural University located in the merged areas of erstwhile Punjab alongwith the research farms of the state department of agriculture were transferred to the University. At that time the Palampur campus consisted of a college of agriculture which imparted education leading to the degree of B.Sc.(Agri.)

The Solan campus when it was transferred to the University consisted of a research institute and an agricultural college which imparted training to students for the B.Sc. degree in agriculture as also Master's degree in the following disciplines: i) Genetics and Plant Breeding, ii) Agronomy, iii) Soil Sciences, iv) Horticulture, v) Botany and Plant Pathology, and vi) Zoology and Entomology.

The Government of the Himachal Pradesh also transferred to the Agricultural Complex of the University all the research units in December, 1971. At present as referred earlier, there are 21 research stations/centres scattered all over the State. Of these, 11 research stations/centres are attached with the Solan campus and the remaining 10 with the Palampur campus. The farm areas of each of these centres were very limited varying from 3.5 acres to 100 acres mostly being in the range of 10 to 20 acres.

#### Palampur Campus - Existing Situation

The Palampur campus has a total area of 969 acres, of which it is presumed that about 700 acres will be available for the establishment of agricultural farms. The college was originally established as an undergraduate agricultural college in 1966. Keeping in view the interest of the population in the vicinity, the college also started giving B.Sc. degree in Basic Science since 1972. The University further proposes to start even B.A. degree in near future. The college started postgraduate courses in Agronomy, Soil Sciences, and Genetics and Plant Breeding in 1971. In 1973-74 there were 210 students for B.Sc.(Agri.) degree and the same will be 240 by the end of the Fifth Five Year Plan in the year 1978-79 and there were 30 students for M.Sc.(Agri.) degrees in Agronomy, Genetics and Plant Breeding and Soil Science which is supposed to be raised to 60 by the end of the Fifth Five Year Plan. During 1973-74, there were 9 students for Ph.D., three each in Agronomy, Genetics & Plant Breeding and Soil Sciences. The number is proposed to be raised to 30 by the end of the Fifth Plan keeping 10 students in each discipline at different levels of their academic progress.

Further the college proposes to add M.Sc. programmes in Forestry and Fruit & Vegetable Technology and Ph.D in Animal Science and Plant Physiology & Bio-Chemistry.

The college does not have a separate library building on the campus; it is housed in one of the laboratories. The buildings for instructional and residential purposes are not adequate. The college is housed in three storeyed wings. Likewise hostel facilities also need to be improved. Residential accommodation for the staff is available only for six teachers and the hostel accommodation for

the staff is available only for six teachers and the hostel accommodation for 96 students. The college would like to have buildings for students' centre and health centre. The department-wise requirement for the implements amounts to over Rs.52 lakhs. The Central facilities such as Communication-cum-Information Centre, Instrumentation Cell and Meteorological laboratory are proposed to be developed by the University.

#### Solan Campus - Existing Situation

The Solan campus is located almost in the Solan town with only about 25 acres of land with it. In view of the paucity of land at Solan it has been decided to shift the college of agriculture from Solan to Khaltu which is situated at a distance of 13 kms. from Solan. At Khaltu the University has already acquired 200 acres of land and 1100 acres of private land is being made available by the State Government. The University has already spent over Rs.50,000 on the survey and planning of this land. This new campus at Khaltu is named as Borlaug campus and on its development the college of agriculture, Solan will shift to this site.

A four year B.Sc.(Agri.) degree programme was started in this college in 1962. The M.Sc.(Agri.) programme in three disciplines started in 1965 and three more were added in the year 1966, 1968 and 1970. At present M.Sc.(Agri.) degrees are being given in the following three subjects:-

- i) Plant Pathology,
- ii) Horticulture, and
- iii) Zoology and Entomology.

The remaining three were shifted to the Palampur campus as referred earlier.

From the academic year 1973-74, the Ph.D. programme started in the disciplines at Solan. The college further proposes to start the Department of Fruit & Vegetable Technology and impart specialised courses in Vegetable and Floriculture. The college further aspires to initiate postgraduate classes in Forestry when the facilities are made available. As per present thinking the University plans to develop gradually the Solan Campus primarily into a college of Horticulture and Forestry because of the agro-climate characteristics of the region.

In 1973-74, the college had 167 students for B.Sc.(Agri.) degree and gradually plans to raise it to 225 by 1978-79. The college offers M.Sc.(Agri.) degrees in Entomology, Horticulture and Plant Pathology with 10, 15 and 10 strength of students respectively. It further proposes to raise the students' strength in these subjects to 20 in subsequent years. The Ph.D. Degrees are offered in all the three disciplines referred to above with three students' strength in each in 1973-74. The plan is to raise the students' strength in each discipline to 8 in 1974-75 and 10 each year in subsequent years. Further planning includes Ph.D. programme in Forestry from 1974-75.

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As proposed by the University the whole Solan campus is proposed to be shifted to Khaltu, Borlaug campus and in view of this whole agricultural college will be required to be developed systematically. For the laboratory equipments and development of experimental and instructional farms, the college plans to invest about Rs.60 lakhs. The development of library and transport facilities are also stated to be strengthened.

Simla Campus - Postgraduate Programme  
in Agricultural Economics.

The Himachal Pradesh University has two agricultural campus Palampur and Solan together known as Agricultural Complex of the University. Also as mentioned earlier the Agricultural Complex will be organised on the pattern of the Agricultural University with all the functional and financial autonomy. Also the teaching, research and extension education functions of the Faculty of Agriculture is recommended to be carried on at the two Campuses - Solan and Palampur. However, in case of Agricultural Economics, a departure has been made, in that the postgraduate programme in Agricultural Economics is being offered at Simla, the Headquarters of the University in the Division of Economics Sciences. This departure, as has been supported in the University Fifth Five Year Plan, is based on the logic of better basic training in Economics, Statistics and Business Management as a part of the Division of Economics Sciences; there are several institutions at Simla to support the training programme in Agricultural Economics at the postgraduate level.

The University also refers the suggestion of Dr. A.S. Kalhon (one man Committee), Punjab Agricultural University with respect to having postgraduate programme in Agricultural Economics at Simla.

Recommendations of the Visiting Team

1. The Agricultural Complex consisted of Agricultural colleges at Palampur and Solan, requires development on continuous basis for sometime to come for meeting even the basic requirements of teaching, research and extension education functions. While doing so, it should be kept in mind that the requirements of both Campuses are relatively different and therefore different priorities need to be fixed for the same. For example, the Borlaug Campus will require development of all facilities from scratch in terms of farm facilities and buildings for the different departments, administration, library and so on. In view of the situation at Solan and keeping in view the requirements for an agricultural campus, the Borlaug campus need to be developed. At Palampur, even for the departments, students and staff, the priority has to be given to land and water development and not on buildings. Presently the building requirements, to some extent, will be met by the acquired building of Wah Tea Factory after some renovation in it.

Although the building facilities will be needed to have the ideal settings

2. Keeping in view the developing stage of both the campuses, it is recommended that a Master Plan separately for each campus with a lot of care and thoughts may be prepared so that it would be relatively easier to fix the priorities as also follow the systematic route of development of all dimensions of the Agricultural Complex. The

Contd.

Master Plan may be shown to the ICAR for making suggestions, if any before finalization.

3. When the Solan Campus is shifted to the Borlaug campus, the buildings and other allied facilities at Solan will be transferred to the Government for its use as it was pointed out by the authorities. The State Government, in turn, should give sufficient compensation in lieu of these facilities so that the same could be helpful in developing at the Borlaug campus on priority basis. The transfer of the facilities at Solan Campus should be extended when adequate facilities at Borlaug Campus are developed. In fact for some years to come the State Government should substantially raise the financial assistance to the University for the development of Agricultural complex and more so for the Solan.

4. As referred in the Fifth Five Year Plan proposal of the University, the University is planning to raise the total number of students in the Agricultural Complex from 420 at present to 1280 by the end of the Fifth Five Year Plan period - an increase of almost three hundred per cent. This tempo on the part of the University is not justified keeping in view the limited facilities in terms of buildings, library, laboratories, hostel etc. In fact the efforts should be to have limited number of students both at undergraduate and postgraduate levels and give equality education to them. The presumption of the University that the state departments of agriculture and many other organisations will absorb all the students coming out of the Agricultural Complex is only subjective; it is not based on systematic manpower planning and study. It is recommended, therefore, that the present level of admission both in undergraduate and postgraduate classes should not be raised. In fact the number of students at post-graduate level especially should be reduced so that the teachers can justifiably give more education and better training.

5. At present, the Solan Campus offers postgraduate programme both M.Sc. and Ph.D. degrees in Horticulture, Plant Pathology and Zoology and Entomology. Likewise at Palampur campus, post-graduate programmes both M.Sc. and Ph.D are being offered in Soil Science, Agronomy, Plant Breeding and Genetics. It is recommended that no further post-graduate programmes should be offered in any other new disciplines unless sufficient facilities are developed and the same is recommended by the "Accreditation Committee of the A.C.A.R.

However, the Palampur Campus is developing the Animal Science on a very large scale through Indo-Newzealand Cattle Breeding Programme. Further goat and sheep breeding programmes are also being introduced. In view of this as also the personnel requirement of the State in this field, it will be possible to initiate post-graduate programme in Animal Science in near future. At suitable juncture, the campus may request the ICAR for sending the Accreditation Team to study and examine the same. It is suggested that the ICAR should support the staff as also the basic facilities required for the post-graduate programme in the above six subjects so that they develop sooner for giving better education and training to the students.

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6. As is known, library is a very basic requirement for any educational institution and, therefore, libraries have to be developed at both the Campuses separately. While doing so care should be taken that the library at Palampur serves as the main library, whereas the library at Solan should have at least basic facilities to cater to the every-day needs of the students and staff at Solan. Other facilities which are required occasionally by the staff and students should be loaned from the Palampur library. Presently the library facilities in terms of books, periodical, journals, etc. need to be supported for making them adequate to the requirements. This should mean that at Borlaug campus the design of the campus should also include a small library building centrally located whereas at Palampur campus, the building facility available from the Wah Tea Factory should be utilised for housing the library after some renovations. Some investment to this effect may be made in this direction.

7. The Wah Tea Factory at Palampur is so huge that with some investment, it could be converted into several laboratories and offices including library requirements as suggested above. In view of financial strengencies as also heavy cost of buildings in Himachal Pradesh it is recommended that this factory building should be fully utilised.

8. At Palampur campus, the development of farm and creating water reservoirs will be necessary for developing the areas both for research as also for instruction to undergraduate and post-graduate students. This should find a high priority.

9. This hostel facility as also the residential requirements of the staff at both the campuses should be enhanced in near future. Both are basic needs and are thus essential.

10. The central facilities like communication-cum-Information Centre, Instrumentation Cell and Metecrological Laboratory should be developed. While Communication Centre may be developed at one campus - Palampur, the other two facilities should be developed at each campus.

11. Looking into the present position of vehicles at Palampur and Solan, only one jeep and a Mini Bus is recommended for the Solan campus and a Mini-bus for the Palampur. The Palampur campus has already several vehicles in different schemes.

12. In order to strengthen the various departments for effective teaching and research the following staff members are being recommended departmentwise:

Department	Prof.	Associate Prof.	Assis- tant Prof.	Lecturer/ Instructor
<u>A. College of Agriculture Palampur</u>				
1. Department of Agronomy	-	1	-	-
2. Department of Genetics and Plant Breeding	-	-	2	-



3.	Department of Soil Science	-	1	1	-
4.	Department of Animal Science	-	1	1	-
5.	Department of Agricultural Engineering	-	1	1	-
6.	Department of Agricultural Engineering	-	1	-	-
7.	Department of Extension Education	-	1	1	-
8.	Home Science Deptt. (Food & Nutrition, Child Development, Home Science Extn.)	-	1	2	1
9.	Department of Botany & Plant Pathology	-	1	-	-

**B. College of Agriculture  
(Solan)**

1.	Department of Botany and Plant Pathology	-	1	1	-
2.	Department of Entomology	-	1	1	-
3.	Department of Horticulture (One in Fruit & Technology)	-	2	-	-
4.	Department of Agricultural Economics	-	1	-	-
5.	Department of Agricultural Engineering.	-	1	-	-
6.	Department of Extension Education	-	1	-	-

13. It should be clearly borne in mind that Palampur and Solan campuses must be developed in all respects in all disciplines for the undergraduate teaching and a few selected departments could be developed for the post-graduate programmes as facilities are enhanced as also looking into the man-power requirements in the respective fields. In this connection it should also be noted that even the Basic Science and Humanities will be required to be developed to the extent that their supports are necessary for under-graduate teaching on both the campuses.

14. As a part of the agricultural complex it will be desirable to initiate Home Science training and education for the rural young girls and women. The general Home Science college in Simla or even at Solan may not serve the cause of the rural woman, for the colleges in Home Science as an integral part of the agricultural universities (Agricultural Complex for Himachal Pradesh University) have rural orientation and this is a must in view of importance being attached to the training and education of rural woman. It is

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suggested, therefore, that a beginning education may be made at Palampur campus to start with as a Home Science faculty. Initially the Home Science programme should include short and medium terms training for the farm women and later on, as facilities develop, they should prepare for undergraduate and post-graduate programmes. The idea of making a college of Home Science, Basic Sciences and Humanities all tagged together does not look appropriate.

15. As pointed out earlier, the post-graduate programme in agricultural economics has already been undertaken not in the agricultural complex but in the Division of Economic Sciences of the University. The logic for doing so as also the one man committee report of Dr. A.S. Kalhon is also referred to in this regard. In this connection it could be seen that this is a basic departure from the normal tradition of agricultural universities/colleges where agricultural economics degree programmes are offered by the Department of Agricultural Economics and not the Economics Department or Basic Science & Humanities. Recognising the importance of Agricultural Economics as one of the disciplines in agriculture, a separate department has existed in all the agricultural universities/colleges. In fact a strong department of agricultural economics as an integral part of the Agricultural Complex is not only important from the undergraduate and postgraduate teaching but also for conducting researches in agricultural economics, integrating their activities with the extension function of the agricultural complex as also participation on all the research projects of the agricultural complex on the inter-disciplinary basis where agricultural economics has to play a very important role.

It can be also seen in the Report of Dr. Kalhon (Annexure-D) that he has very much supported the above points of view throughout his discussion. But he further says that, nevertheless, it would be possible to develop post-graduate programmes at Simla. Both the views are not consistent, rather contradicting each other. The team, therefore, recommends that at both the campuses the Department of Agricultural Economics must be developed, one at the undergraduate level (Solan) and another upto postgraduate level at Palampur. But for the present since the Agricultural Economics Department in the initial trimesters (one or two as the case may be) to cover the basic courses, and then they should be sent to Palampur for their further applied courses in Agricultural Economics and the research work. This arrangement may continue for the present and the same may be reviewed at a latter date. On priority basis, the Department of Agricultural Economics at Palampur may be developed.

On either Campus are not developed, the post-graduate students in agricultural economics may study at Simla in the division of Economics.

16. In order to strengthen the extension function of the Agricultural complex at H.P. University, it will be essential to have a full time Director of Extension as provided in all the Agricultural universities supported by subject matter specialists in different disciplines. The number of subject matter specialists and the rank for the same may be decided later on the appointment of Director of Extension keeping in view the already existing extension staff.

17. Two senior faculty members - one at Solan and another at Palampur may be assigned the extra-work of looking after the students'

welfare programmes as Assistant Dean Students Welfare under the respective Associate Deans or Dean of the Campus. They may be given suitable allowance for the same.

18. The team also visited the Mashobra Fruit Research Centre which supports the post-graduate teaching and research programmes of the Department of Horticulture of the Solan Agricultural Campus. The Horticulture being a very important subject for this region, the facilities at Mashobra need to be strengthened. The research laboratory building which is a strong support to the post-graduate students at Solan, is standing at the plinth level and its completion is immediately essential and needed the ICAR support.

19. Besides these recommendations the following budgetary provision will reflect the recommendations of the team on some other facilities like farm development, buildings, equipments etc.

20. It was learnt that the distribution of research centres to these two campuses was not rational due to the historical reasons and therefore the committee recommends that these centres should be redistributed between the two agricultural campuses more rationally so that integrated functioning of teaching, research and extension can take place.

The assistance by the ICAR for the Fifth Five Year Plan may be given on the following areas:-

S.No.	Heads	Palampur Campus	Solan Campus	Total
( Rupees in Lakhs)				
1.	Staff Salary for Palampur & Solan Campuses.	-	-	15.00
2.	<u>Development of Instructional Farm</u>			
	a) Reclamation of land	8.00	8.00	
	b) Purchase of farm Machinery	1.50	1.50	
	c) Irrigation facilities	8.75	10.00	
	d) Farm building	1.00	5.00	
		<u>19.25</u>	<u>24.50</u>	= 43.75
3.	<u>Buildings</u>			
	a) Conversion of Wah Tea Factory into Labs. etc.	5.00	-	
	b) Laboratory blocks	15.00	20.00	
	c) Animal Sheds Poultry Pens	3.00	1.50	
	d) Play-ground and students' activity centre	1.50	1.50	
	e) Students' hostel (Palampur for 100 students, Solan for 100 students)	5.00	6.00	
	f) Post-graduate Research & Training facilities at Mashobra: uncompleted building.			2.00
		<u>27.50</u>	<u>29.00</u>	<u>60.75</u>

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<u>S.No.</u>	<u>Heads</u>	<u>P. Campus</u>	<u>S. Campus</u>	<u>Total</u>
g)	Teachers House (Palampur for 20 and Solanpur for 20)	6.00	6.00	
h)	Teachers' hostels (20 sets for each campus)	6.00	4.00	
i)	Glass house for both the campuses and pot culture house for Palampur	3.00	2.00	
j)	Library Building	-	3.50	
		<u>44.50</u>	+ <u>44.50</u>	= 89.00

4. Other Facilities

a)	Gas Plant	.	2.50	
b)	Transport (one bus and one jeep at Solan and one mini-bus at Palampur)	0.50	1.00	
c)	Laboratory equipments & books	20.00	20.00	
d)	Form communication centre including the printing press	8.00	-	
e)	Laboratory equipments for postgraduate facilities at Mashobra	-	0.50	
		<u>28.50</u>	+ <u>23.50</u>	= 52.00
				<u>201.25</u>

ORGANISATION OF THE DEPARTMENT OF AGRICULTURAL  
ECONOMICS AT THE HIMACHAL PRADESH UNIVERSITY  
(As recommended by a Committee)

At present, the H.P. University has three campuses; one at Palampur, one at Solan and one at Simla. The two Colleges of Agriculture at Solan and Palampur, which form the agricultural complex, are quite distantly located from each other. The basic sciences, social sciences and humanities are mostly located at the Simla Campus of the University.

Economics, Agricultural Economics and Business Administration form an integral part of the Division of Economic at the Simla Campus of the University. This particular organisation of the Department of Economic Sciences has not doubt certain advantages, which were again and again emphasized in discussions by the members of the staff of the Department of Agricultural Economics. The main thrust of the arguments is that today, the discipline of agricultural economics demands greater rigour in economic theory and statistics, and unless one is a good economist and is a good statistician, one cannot be rated as a good agricultural economist and cannot turn out real good students in agricultural economics. Since the students of agricultural economics take their courses in economic theory from the Department of Economics and courses in basic mathematics and statistics from the Department of Mathematics & Statistics, and some courses are planned to be offered to the students of agricultural economics has to borrow so much from economics, mathematics, statistics and from the discipline of Business Administration which are all located at the Simla Campus of the University. The various courses offered by each one of these disciplines are listed in Appendix I, which does establish the point that agricultural economics has to depend heavily upon the departments of Economics, Mathematics and Statistics and Business Administration for course offerings in agricultural economics.

I have no doubt, in my mind that a good student of agricultural economics has to be real good in economic theory, in basic mathematics, in applied statistics and has also to learn quite a great deal from the discipline of Business Management. With the emphasis in the discipline of agricultural economics shifting more and more on the quantification techniques, particularly, at the graduate level, a student of agricultural economics must have an easy access to the Department of Mathematics and Statistics for adequate training in quantification techniques. It, therefore, becomes necessary that the Department of Economics, Agricultural Economics, Business Administration and Mathematics & Statistics are all located at one campus in close proximity to one another as is being done by the Himachal Pradesh University.

P.T.O.

I was informed that the Department of Agricultural Economics admire mostly B.Sc. (Agri.) students in agricultural economics, which means the students have a good base in agriculture and would require more rigorous training in economics, statistics and business management at the graduate level. And all these disciplines are located at the Simla Campus.

I was told by the Vice-Chancellor of the University that the Departments of Geography and Sociology are being created and these will also be located at the Simla Campus in close proximity to the Division of Economic Sciences. This system of organising teaching and research in economics, agricultural economics, mathematics, statistics, business administration, regional geography, and sociology at one campus, will no doubt, go a long way to promote interdisciplinary teaching and research in agricultural economics, which is the need of the hour.

I was also informed that the Directorate of Agriculture Horticulture and Animal Husbandry are located at Simla, which makes it possible for the Department of Agricultural Economics to work in close collaboration, with the heads of these departments and particularly helps in formulating such research studies in agricultural economics; which would help the state government in rationalizing agricultural policy. Likewise, Agro-Industries Corporation of H.P., Economics & Statistical Organisation and the Planning Unit of the H.P. Government, which have so much to do with the economic development of agriculture of Himachal Pradesh, are also located at Simla, which makes it possible for the Department of Agricultural Economics of the University to maintain a good liaison and report with them.

I have no doubt in my mind that agricultural economics will benefit from the locational advantage of the existence of the Directorate of Agriculture, Horticulture, Animal Husbandry, Economic and Statistical Organisation and the Planning Department, all located at Simla. All these arguments and locational advantages do not, however, answer the basic question as to how the H.P. University is going to strengthen teaching and research programmes in agricultural economics in the Colleges of Agriculture located at Solan and Palampur.

Again, according to a recent decision of the H.P. University most of the postgraduate work in Agronomy, Soil Science and Horticulture has been shifted to Palampur Campus. whereas most of the postgraduate teaching and research work in Entomology, Plant Pathology will be concentrated at the Solan Campus. Agricultural Economics was to derive strength

not only from Agronomy or Soil Science but practically from all agricultural sciences, including agricultural engineering. Therefore, the location of agricultural economics at any one of the agricultural campuses, whether at Palampur or Solan will not expose the student of agricultural economics to all the major disciplines of agriculture, because about 50 per cent of others major disciplines are located at Palampur and the remaining 50 per cent at Solan. The two campuses being located far apart would certainly make it difficult for a student of agricultural economics located at any one of these campuses, to have an easy access to other major disciplines of agricultural services located on the other campus. In spite of these constraints, I find it difficult to believe that agricultural economics in the H.P. University can flourish without strengthening teaching and research programmes in agricultural economics in the agricultural complex at Solan and Palampur College of Agriculture.

Once it is recognised that agricultural economics must be strengthened both in Solan and Palampur Colleges of Agriculture, a natural corollary would be, that agricultural economics must be headed at least by a person of the rank of an Associate Professor or a Reader at both these Campuses - Solan and Palampur. These could be designated as Associate Head of the Department and provided with a complement of staff of the level of Assistant Professors, at least one in production Economics and Farm Management, one in Agricultural Marketing and Price Analysis, and one in Agricultural Finance at each of the two campuses. These units, for their day to day administration, could be made responsible to the Dean of the College but for all technical guidance in agricultural economics, they should be responsible to the Head of the Department of Agricultural Economics located at Simla Campus.

Once agricultural economics is strengthened in the agricultural colleges, these members of the staff should help the major Department of Agricultural Economics at Simla in identifying the pertinent problems of agriculture and horticulture in those types of farming areas, where the two colleges of Agriculture are located and thus provide a food back, which is so necessary for the rapid growth and effective functioning of the Department of Agricultural Economics at Simla.

Teaching and research in agricultural economics could be further strengthened in the two colleges of agriculture at Palampur and Solan by locating some field staff there, which is provided in the research schemes of the Department of Agricultural Economics at Simla. Some of these schemes such as cost of production of major crops will run more or less on a continuing basis and such staff which will cover type of farming areas around Palampur and

Solan, could be located on these campuses on a continuing basis to provide support to teaching and research programmes in agricultural economics of these campuses.

To summarise, teaching and research in agricultural economics could be strengthened in Himachal Pradesh University on the following lines:-

1. The Department of Agricultural Economics should continue to derive the locational benefits which accrue to it by virtue of its being an integral part of the Division of Economic sciences at Simla so that the students of agricultural economics can obtain effective instructions in economic theory, mathematics, statistics and business management from the Departments of Economics, Mathematics and Statistics, and Business Management which are all located at Simla.
  2. Both the Colleges of Agriculture at Solan and Palampur should build up agricultural economics as a major discipline on the lines indicated in this note.
  3. At least that part of the field staff, provided in various research schemes, which is to operate on a continuing basis in type of farming areas around Solan and Palampur, should be located in these agricultural colleges to provide support to teaching and research programmes in agricultural economics in operation at these campuses.
  4. At least those graduate students in agricultural economics who work with problems of economic development of agriculture and horticulture of the State in the type of farming areas around Simla and Palampur, should be located at these campuses for their research work after they have completed their course work at the Simla Campus.
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UNIVERSITY GRANTS COMMISSION  
Meeting:

*Confidential*  
(90)

Dated : 12th May, 1975

Item No.14: To consider the question of increasing the amount of Hari Om Ashram Trust awards from Rs.10,000 to Rs.15,000 each.

The University Grants Commission at its meeting held on 6th December, 1972 vide item No.37 and meeting dated 16th January, 1974 vide item No.9 accepted the offer of Rs.6 lakhs from the Hari Om +Ashram Trust, Nadiad for instituting following four awards :

1. Sir C.V. Raman award for Experimental Research in Physical Sciences.
2. Homi J. Bhabha award for Research in Applied Sciences.
3. Meghnad Saha Award for Research in Theoretical Sciences.
4. Sir Jagdish Chandra Bose Award for Research in Life Sciences.

The conditions governing these awards are indicated in Annexure-I.

As per terms and conditions of the award the interest earned from this amount is to be entirely utilised for giving the awards. On the basis of the rate of interest applicable to these amount, it was earlier decided that the each award would be of value of Rs.10,000. The selection for first three awards has already been announced. This was reported to the Commission vide item No.2(a)-8 at its meeting held on 14th April, 1975. The Managing Trustee of the Hari Om Ashram Trust, Nadiad has now informed that since the rate of interest has been increased from 8% to 10% from July, 1974, the amount of each award could now be increased from Rs.10,000 to Rs.15,000.

It may be mentioned that the total interest received for the amount of Rs.4.5 lakhs placed at the disposal of the Commission by the trust for the first three awards up to 31st August, 1974 is Rs.50,293.64. The amount of Rs.1.5 lakhs for Sir Jagdish Chandra Bose Award was deposited on 10th July, 1974 and the interest up to July, 1975 would be about Rs.15,000/-. In view of the increased rate of interest the Commission would get Rs.60,000/- per annum as interest for all the four awards, and accordingly it would be possible to enhance the value of each award from Rs.10,000 to Rs.15,000 from the year 1975.

In this connection it may be mentioned that similar awards of Rs.10,000 for scientific research are

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being awarded by some other agencies also. The CSIR gives S.S. Bhatnagar awards. The Federation of Indian Chamber of Commerce/also gives similar awards. The Hari Om Ashram trust has also given Rs.3 lakhs to ICAR to institute two such awards every year. None of these organisations have considered the question of increasing the amount of these awards. It is understood that the ICAR has not yet received any proposal from the trustees of Hari Om Ashram for increasing this amount. It would be perhaps desirable to keep the amount of all these awards comperable and limited to Rs.10,000/-.

Further it is also possible that any of the awards mentioned above in para (1) could be given to more than one person by dividing the Prize money equally.

The matter is placed before the Commission for consideration.

P.O. (SR)

UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI

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Awards to outstanding Scientists out of the endowment created with the sum received from Hari Om Ashram Trust, Nandiad (Gujarat)

The University Grants Commission has instituted the following awards of the value of Rs. 10,000/- each per year to be awarded to outstanding scientists:

1. Sir C.V. Raman award for Experimental Research in Physical Sciences.
2. Bhai J. Shacha award for Research in Applied Sciences.
3. Meghad Saha award for Research in Theoretical Sciences
4. Sir Jagdish Chandra Bose award for research in Life sciences.

The awards are subject to the following conditions:

- (i) Only contributions by Indian scientists, whether by an individual or by a team of 2 to 3 persons, would be eligible for these awards. The institutions or organisations are not covered under the scheme.
- (ii) The prize would be awarded to an individual or a team for outstanding scientific work which has made conspicuously important contribution to human knowledge in the areas covered by the scheme and thrown light on the problems in a new manner. The prize could also be equally shared by two persons whose work was of equal merit.
- (iii) In deciding the award, attention would be focussed on the specific contribution made during the last five to seven years' period.
- (iv) The scientific work to be assessed would cover books, monographs, papers or any other unpublished account of research work, inventions, discoveries etc.
- (v) The work should have been carried out in India.

or more

University Grants Commission

Confidential

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Meeting:

Dated: 12th May, 1975.

Item No. 15 : To consider the trends in different states regarding failure rates at the first and second degree examinations.

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The Estimate Committee while examining the estimates regarding the Ministry of Education & Social Welfare had sought information regarding failure rates at different levels - at the B.A./B.Com./B.Sc. and M.A./M.Com./M.Sc. examinations held by various universities during 1969-73. The following is in brief the position regarding failures at the various examinations during 1969-73, emerging out of a study of the examination results of the B.A./B.Com./B.Sc. and M.A./M.Com./M.Sc. examinations held at different universities in the country during 1969 to 1973 (Annexure-I)

- (1) The failure rates of the B.A./B.Com./B.Sc. examinations are increasing year by year and the average failure rate for the period 1969-73 works out to 42 per cent of the total students who appeared for the B.A. examinations, 44.7 per cent of those who appeared for B.Sc. Examinations and 41 per cent of those for the B.Com. examinations.
- (2) The students who passed out with third division constitute the bulk of the successful candidates at the B.A./B.Com. examinations. At the B.Sc. examinations, however, the third divisioners account for 40 per cent of the successful candidates. The third divisioners on an average account for nearly 72 per cent at the B.A. examinations and 69.3 percent at the B.Com. examinations.
- (3) At the M.A./M.Sc./M.Com. examinations the incidence of failures is not generally very high; though in a few universities the percentage of failures has been rather high. But the number of successful candidates with third division at the M.A. degree examinations account for 42.5 per cent of the successful candidates. This percentage for the M.Com. degree examination is 35 per cent but for M.Sc., is only 10.4 per cent. The percentage of failures at the M.Sc., level is very much lower than those of M.A./M.Com. examinations.
- (4) The above percentages, however, do not speak of the real situation in the different States, e.g. in Bihar the examination results show that at the B.A. 1973 examinations 77.2 percent of the students failed, at the B.Sc., 89.1 per cent of the students failed and at the B.Com. examinations this percentage is 68.3 per cent, while in 1971 in Bihar the failure rate for B.A. was 36.5 percent, for B.Sc., 41.6 percent and for B.Com. 50.8 per cent. In Gujarat this failure rates were only 10.3 percent, 8.5 per cent and 22.3 percent at the B.A., B.Sc. and B.Com. examination results in 1969 and this position has been maintained almost similarly upto 1973; in 1973 the

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the corresponding figures were 11.2 percent, 16.6 percent and 24.9 percent. In the case of Tamilnadu the failure rates for B.A. examinations have been very high during this period - 74 per cent, 71.1 per cent, 50 per cent and 72.1 per cent during 1969-73. At the B.Sc. level leaving Bihar, the highest failure rates were recorded by universities in Andhra Pradesh. As for B.Com., the highest failure rates have been recorded in Rajasthan in 1969, Tamilnadu in 1970, Karnatka in 1971 and Bihar in 1973.

At the M.A. level in Bihar the percentage of failure was only 12.7 per cent in 1969, 13.9 per cent in 1970, 26.3 per cent in 1971 and this has gone up to 44.7 per cent in 1973. Not only that the number of students who appeared for M.A. in Bihar which was 3,322 in 1969 has sharply dropped to a mere 927 in 1973. The position for M.Sc. for Bihar has been 25.6 per cent failure in 1969 as against 64.9 per cent failure in 1973, the number appeared having dropped from 799 in 1969 to 607 in 1973. As for M.Com., the failure rate was 63.6 per cent in 1969 with 700 students appearing and for 1973 this percentage has come down to 29.9 per cent but the number of students appearing for M.Com. has dropped to a mere 80. The percentage of failures at the M.A./M.Com./M.Sc. examinations is also tending to increase year after year; The failure in 1973 being one in five for M.A./M.Sc. examinations and two out of five for M.Com. examinations.

- (5) The total number of students passing B.A. degree examinations which was 1,40,133 in 1969 rose to 1,43,185 in 1971 and is tending to fall since then and the figure has come down to 1,34,334 in 1973.
- (6) At the B.Sc. examinations the number of passes was 60,770 in 1969 which went up to 67,344 in 1971 and thereafter is tending to fall, the number in 1973 being 61,920.
- (7) As for B.Com., the number passed was 26,195 in 1969 and this number has gone upto 37,383 in 1973.
- (8) Generally speaking, the number of students passing B.A./B.Sc. is tending to fall while the number of successful Commerce graduates is increasing significantly and this increase is registered mainly from universities in Maharashtra and Gujarat. The increase in Maharashtra has been very significant the successful commerce graduates were only 3,538 in 1969 as against 13,665 in 1973. In Gujarat as against 3,027 in 1969 the number in 1973 was 8,453. Other States accounting for increase in the number of successful commerce graduates include Jammu & Kashmir, Delhi, Tamilnadu and Karnataka. This has consequently resulted in the general trend that the number of students offering commerce courses is increasing in almost all the States.

(8) Though the failure rates at the M.A./M.Sc. and M.Com. level, are not very high States, Like, Uttar Pradesh, Madhya Pradesh are among the States having the largest number of third divisioners during 1969-73. In 1973 nearly half the successful M.A.'s were third divisioners. At the M.Sc. level the number of third divisioners is only roughly one out of 10. At the M.Com. level the number of third divisioners is increasing during this period has increased from 28.3 per cent in 1969 to 43.2 per cent in 1973.

The general conclusion from the above is that the number of failures is increasingly steadily at the B.A. and B.Com. and B.Sc. examinations and the number of passes in third division is significantly very large at the B.A. and B.Com. degree examinations. At the M.A./M.Com/M.Sc. examinations, the number of failures which was not high is now tending to increase, the failure rates accounting for one out of five at the M.A./M.Sc. examinations and two out of five at the M.Com. examinations in 1973. The number of passes in third division at the M.A. and M.Com. degree examinations is increasing significantly and States like Uttar Pradesh and Madhya Pradesh have a large number of third divisioners. The State-wise position is given in the enclosed statements.

The matter is placed before the Commission for its consideration.

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Percentage of failures and percentage of passes in third division  
in B.A., B.Sc., B.Com, examinations 1969 (Annual) Examination.

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State	No. App. No. Passed		No. App. No. Pass		No. App. No. Pass		Percentage of failures.			Percentage of third division		
	B.A.		B.Sc.		B.Com.		B.A.	B.Sc.	B.Com.	B.A.	B.Sc.	B.Com.
1	2	3	4	5	6	7	8	9	10	11	12	13
Andhra Pradesh	5771	2483	9597	3627	3090	1539	57.0	62.2	50.2	81.5	44.8	24.3
Assam	8908	3855	1570	925	448	263	56.7	41.0	41.3	95.3	87.2	92.0
Bihar	10850	5394	6751	2226	1589	903	50.3	67.0	43.2	83.0	79.5	80.3
Gujarat	7877	7064	5025	4598	3897	3027	10.3	8.5	22.3	50.3	13.2	51.8
Haryana	70	63	57	51	12	11	10.0	10.5	8.3	66.7	29.5	36.4
Himachal Pradesh,												
Jammu and												
Kashmir	1482	377	1280	674	59	36	34.1	47.3	38.9	69.2	64.4	44.4
Karnataka	6023	3251	8721	4484	2503	1126	46.0	48.6	55.0	79.0	54.4	83.9
Kerala	5060	3808	8991	6361	N.A.	N.A.	24.7	29.3	—	83.1	33.2	
Madhya Pradesh	14770	9396	4574	2835	3182	2099	36.4	38.0	34.0	62.9	29.8	69.4
Maharashtra	18810	10448	7938	4711	8410	3538	44.5	40.7	42.1	56.2	33.2	61.2
Orissa	3684	1706	1723	991	285	155	53.7	42.4	45.6	94.3	39.7	92.6
Punjab	18382	12219	4277	2928	522	400	33.5	31.5	23.3	83.1	49.6	55.2
Rajasthan	6742	4235	1751	1074	2521	926	37.2	38.7	63.3	76.6	30.3	62.6
Tamil Nadu	15629	4070	12788	6670	1695	1091	74.0	47.8	35.6	85.1	29.9	70.0
Uttar Pradesh	32762	22364	16675	10223	3215	2291	31.7	38.7	28.7	63.6	35.7	64.2
West Bengal	24453	17011	13224	7447	15223	8045	30.4	43.7	47.2	86.8	59.8	33.8
Delhi	8455	6037	1204	945	1030	745	28.6	21.5	27.6	91.3	39.2	74.1
All-India	189728	114381	106146	60770	47681	26195	39.7	42.7	45.1	74.1	41.0	71.4

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## Annexure to Item No. 15

Percentage of Failures and percentage of third divisioners  
in B.A., B.Sc., B.Com. examinations. - 1970 Annual.

State	No. App. No. Passed		No. App. No. Passed		..... No. App. No. Passed		Percentage of failures			Percentage of third divisioners.		
	B.A.		B.Sc.		B.Com.		B.A.	B.Sc.	B.Com.	B.A.	B.Sc.	B.Com.
1	2	3	4	5	6	7	8	9	10	11	12	13
Andhra Pradesh	6325	2691	9770	3856	4110	1821	57.5	60.5	55.7	81.1	36.1	73.0
Assam	8861	3924	1934	1020	559	387	55.7	47.3	30.7	96.8	88.0	99.6
Bihar	11085	6937	8263	3508	1533	719	37.4	57.5	53.1	73.9	83.0	73.3
Gujarat	8391	7330	5488	4971	5458	4043	12.6	9.4	25.9	54.2	19.5	55.8
Haryana	122	116	67	62	43	35	5.0	7.4	18.6	65.5	31.0	51.5
Himachal Pradesh												
Jammu & Kashmir	2292	1387	1726	1088	50	42	39.5	37.0	16.0	68.7	43.9	16.7
Karnataka	9136	4515	13940	6183	3519	1170	50.6	55.6	66.7	71.3	36.9	79.3
Kerala	8160	6613	8230	6446	2045	1267	19.0	21.7	38.0	83.4	30.0	34.3
Madhya Pradesh	20296	11546	5948	3726	3531	2622	43.1	37.4	25.7	68.2	26.4	67.4
Maharashtra	19157	11238	9258	6067	9712	5012	41.3	34.5	48.4	57.0	27.8	67.2
Orissa	3491	1479	1701	962	281	152	57.6	43.4	46.0	99.2	92.3	89.0
Punjab	25696	13341	6446	3559	636	458	48.1	44.8	28.0	71.6	37.7	43.0
Rajasthan	8422	5162	2455	1427	1987	1356	38.7	41.9	31.8	78.4	26.1	57.9
Tamil Nadu	21869	6327	13346	7124	3027	1041	71.1	46.6	65.6	84.0	29.3	71.5
Uttar Pradesh	48933	30970	13005	8850	3372	2274	36.7	50.8	32.6	64.0	37.8	64.5
West Bengal	32457	21048	11192	9750	14583	10654	35.1	12.9	26.9	86.5	80.2	89.8
Delhi	10869	6784	1582	990	-	-	37.6	37.4	-	91.7	50.0	-
All-India	245562	141408	119351	69589	54446	33053	42.4	41.7	29.0	73.9	41.8	74.4

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Percentage of failures and third divisioners in B.A.,  
B.Sc., B.Com. Examinations - 1971 (Annual)

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State	No. App. No. Passed		No. App. No. Passed		No. App. No. Passed		Percentage of failures			Percentage of third divisioners		
	B.A.		B.Sc.		B.Com.		B.A.	B.Sc.	B.Com.	B.A.	B.Sc.	B.Com.
1	2	3	4	5	6	7	8	9	10	11	12	13
Andhra Pradesh	4725	2946	3014	1296	4070	2051	37.6	57.1	49.6	53.8	43.8	83.4
Assam	9799	4634	2246	1462	529	247	52.7	34.9	53.3	97.2	92.2	99.4
Bihar	13588	8623	9370	5474	2230	1098	36.5	41.6	50.8	78.8	93.0	75.0
Gujarat	7333	6511	5285	4409	4454	3346	11.2	16.6	24.9	58.1	21.4	59.5
Haryana	81	69	68	54	50	28	14.8	20.5	46.4	80.0	23.0	64.3
Himachal Pradesh	1849	989	323	144			46.5	55.4	-	89.2	54.2	
Jammu & Kashmir	2747	1645	1826	786	84	53	80.1	57.0	37.0	68.6	54.8	72.0
Karnataka	11538	6361	15291	5970	4928	1770	44.9	60.9	64.1	87.2	55.7	86.3
Kerala	8879	6232	9070	6229	2055	1262	29.8	31.3	38.6	82.5	36.4	83.7
Madhya Pradesh	21541	12044	6504	3165	3920	2094	44.1	51.3	46.6	68.1	32.9	63.6
Maharashtra	23878	14292	12808	8883	12831	5890	40.1	36.9	54.1	55.4	28.6	62.4
Orissa	3623	1887	1728	898	397	231	47.9	48.0	41.8			
Panjab	27754	13814	6346	3978	808	643	50.2	37.3	20.4	81.1	43.8	40.2
Rajasthan	7545	4843	1772	1041	2643	1554	35.8	41.3	41.2	71.4	27.4	52.0
Tamil Nadu	15200	7590	17878	8491	2527	2007	50.0	52.5	20.6	85.7	28.3	53.3
Uttar Pradesh	55335	36426	21284	9947	4104	2623	34.2	53.3	36.1	53.0	39.0	57.1
West Bengal	10072	7177	5402	4811	3113	2706	28.7	10.9	13.1	84.2	82.1	92.7
Delhi	13427	7502	2102	1108	N.A.	N.A.	44.1	47.3	N.A.	90.3	52.2	
All India	238914	143585	122317	67344	48743	27583	40.0	44.9	43.4	68.9	42.0	66.8

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Annexure to Item No. 15.

Percentage of Failures and third divisioners in B.A., B.Sc.  
B.Com. Examinations - 1973 (Annual & Supplementary.)

State	No. App. No. Passed		No. App. No. Passed		No. App. No. Passed		Percentages of Failures.			Percentages of third divisioners		
	B.A.		B.Sc.		B.Com.		B.A.	B.Sc.	B.Com.	B.A.	B.Sc.	B.Com.
1	2	3	4	5	6	7	8	9	10	11	12	13
Andhra Pradesh							N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Assam	7686	4044	1874	1263	427	346	47.4	32.3	19.0	97.7	90.5	99.7
Bihar	9686	2207	9534	1037	1082	343	77.2	89.1	63.3	71.5	93.1	35.2
Gujarat	12332	10719	6223	5261	11104	8453	13.1	15.5	23.9	55.0	21.0	53.5
Haryana							N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Himachal Prd.	3882	2479	709	517	72	55	36.1	27.1	23.5	97.0	63.2	53.2
Jammu & Kashmir	3952	12150	4256	2083	1363	575	45.6	52.2	57.8	70.1	39.0	31.4
Karnataka	13043	4835	19202	6779	5471	2691	63.0	64.7	72.5	N.A.	N.A.	N.A.
Kerala	12895	7184	14081	8094	3667	1528	44.3	42.5	58.3	84.4	43.7	83.4
Madhya Prd.	25045	15010	7764	4213	4795	2901	40.1	45.7	39.5	70.9	40.9	71.7
Maharashtra	41830	23502	13057	7688	25243	13655	43.8	41.2	45.9	58.6	25.5	64.2
Orissa							N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Punjab	8310	4504	1909	858	138	112	45.8	55.0	19.0	90.1	41.5	12.5
Rajasthan	1437	1141	1126	830	482	270	20.6	26.3	44.0	60.9	44.1	45.5
Tamil Nadu	30718	8562	20018	10138	4985	2516	72.1	49.3	49.5	86.1	33.9	63.1
Uttar Pradesh	54031	35830	20297	11801	3121	2028	33.6	41.9	48.1	58.8	32.4	50.2
West Bengal							N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Delhi	23647	12117	2386	1353	3828	1910	48.8	43.3	50.1	94.7	48.9	81.7
All India	248498	134334	122536	61920	70078	37383	45.9	49.5	46.7	71.0	36.3	64.6

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Percentage of failure and percentage of passes in third division in  
M.A., M.Sc., M.Com., examination.

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1969 (Annual) Examination

STATE	No. App. No. Pass		No. App. No. Pass		No. App. No. Pass		Percentage of failures			Percentage of 3rd Div.		
	M.A.		M.Sc.		M.Com.		M.A.	M.Sc.	M.Com.	M.A.	M.Sc.	M.Com.
Andhra	1634	1342	653	599	110	99	17.9	8.3	10.0	34.0	4.5	24.0
Assam	1006	613	251	212	58	47	29.1	15.5	19.00	-	-	-
Bihar	3332	2907	799	626	140	24	12.7	21.7	11.4	15.8	13.3	66.7
Gujarat	2771	1184	963	716	700	255	57.3	25.6	63.6	23.6	11.2	22.8
Haryana	260	236	134	121			9.2	9.9		32.2	5.0	
Himachal Pd.												
J & K	685	512	234	176	14	7	25.2	24.7	50.0	60.8	33.0	43.0
Karnataka	818	582	417	354	99	93	26.5	18.3	7.0	51.5	4.8	61.3
Kerala	1530	1265	1041	915	199	172	17.3	12.1	13.6	37.4	13.7	51.2
M.P.	6211	5499	1183	1035	926	823	11.5	12.5	11.1	55.2	12.6	43.3
Maharashtra	3301	2295	1024	774	1004	621	30.5	24.4	38.1	49.9	10.7	41.6
Orissa	697	613	325	262	27	27	12.1	19.3	0.0	30.0	10.7	22.2
Panjab	4577	2987	296	294	11	11	34.7	0.7	0.0	49.6	6.1	9.1
Rajasthan	2914	2250	385	357	198	174	22.8	7.2	12.0	47.3	7.3	22.5
Tamil Nadu	1322	857	1227	825	76	50	35.2	32.7	34.0	Less than 1%		
U.P.	12988	9587	3621	2872	1037	858	25.8	19.2	17.3	57.6	15.2	43.5
West Bengal	8130	5233	1497	1292	1931	1295	35.6	13.7	32.9	-	-	-
Delhi	1365	1099	251	246	102	70	19.5	2.0	31.0	31.0	3.3	41.4
All India		39061		11676		4626				38.7	9.7	28.3

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Percentage of failures and percentage of passes in third  
division in M.A., M.Sc., M.Com. examination

1970 (Annual) Examination

STATE	No. App. No. Pass		No. App. No. Pass		No. App. No. Pass		Percentage of failures			% of third division		
	M.A.		M.Sc.		M.Com.		M.A.	M.Sc.	M.Com.	M.A.	M.Sc.	M.Com.
Andhra	1710	1499	605	522	129	121	12.3	8.7	6.0	33.1	4.9	30.6
Assam	1040	657	264	232	31	20	36.8	12.1	35.3	-	-	-
Bihar	3375	2904	820	648	181	170	13.9	21.0	6.0	15.0	15.1	17.7
Gujarat	1795	936	806	615	601	148	47.8	23.7	75.4	36.3	11.9	29.1
Haryana	291	251	149	125	-	-	13.7	16.0	-	53.4	9.6	-
H.P.												
J & K	646	492	250	199	21	16	23.8	20.4	23.8	62.6	22.0	6.9
Karnatak	1085	964	703	578	93	83	11.1	17.8	10.8	43.7	19.0	63.7
Kerala	1585	1278	930	757	165	140	19.4	18.6	15.0	37.3	14.9	59.3
M.P.	7492	6623	1426	1111	843	783	11.6	22.1	6.3	50.8	13.3	41.6
Maharashtra	3984	2753	1157	923	1073	674	30.9	20.2	37.0	46.2	11.9	43.8
Orissa	765	680	328	253	33	32	11.1	17.8	3.0	28.0	11.5	15.6
Punjab	5477	4433	394	381	17	17	19.1	3.2	0.0	50.4	6.8	35.3
Rajasthan	3043	2637	378	351	248	199	13.3	7.1	19.7	44.6	8.3	29.2
Tamilnadu	1588	1045	1317	928	101	64	34.2	29.5	36.6	-	29.1	-
U.P.	13623	10047	3427	2627	958	783	24.1	23.2	17.4	56.6	14.1	43.7
W.B.	8451	5536	1558	1388	1919	1283	34.5	10.9	33.1	0.3	-	-
Delhi	1664	1397	240	234	138	108	16.1	2.5	21.7	36.4	4.3	63.9
All India	59514	44133	14752	11902		4643	25.8	19.3	29.1	38.7	9.8	29.3

Percentage of failures and percentage of passes in third division in M.A., M.Sc., M.Com. examination.

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1971 (Annual) Examination

STATE	No. App. No. Pass		No. Appl. No. Pass		No. App. No. Pass		% of failures			% of third division		
	M.A.	M.Sc.	M.A.	M.Sc.	M.A.	M.Sc.	M.A.	M.Sc.	M.Com.	M.A.	M.Sc.	M.Com.
Andhra	1945	1598	825	665	273	240	17.8	19.3	12.0	32.0	2.4	34.6
Assam	1059	622	345	305	58	35	41.2	18.2	39.7	-	-	-
Bihar	2815	2149	662	386	124	105	23.6	27.5	15.3	11.8	16.5	19.1
Gujarat	996	770	693	590	385	264	22.7	14.8	31.4	56.6	10.9	80.0
Haryana	294	201	191	132			31.6	30.8		53.7	15.2	-
H.P.												
J & K	598	448	233	169	25	21	25.1	27.4	16.0	63.4	19.5	33.3
Karnataka	1253	1156	800	652	118	111	7.7	18.5	5.9	40.7	8.6	37.2
Kerala	1571	1154	1275	1098	56	49	26.5	13.9	12.0	25.0	16.0	51.0
M.P.	6655	5796	1519	1298	962	858	12.9	14.5	10.8	51.3	11.3	41.9
Maharashtra	4232	2930	1344	1041	1175	705	30.8	22.5	40.0	43.7	8.3	39.6
Orissa	1100	1006	427	342	56	55	8.5	19.9	1.8	30.9	7.3	3.6
Punjab	5981	4864	388	380	15	15	18.7	2.0	0.0	57.9	7.4	6.7
Rajasthan	3185	2509	423	379	249	216	21.2	10.4	13.2	43.5	10.3	18.5
Tamilnadu	1906	1176	1608	956	119	101	38.2	40.5	15.0	13.6	1.3	-
U.P.	18693	14453	4824	3427	793	705	22.7	29.0	11.1	44.4	13.3	37.3
West Bengal	11401	1003	320	191	29	N.A.	10.3	10.0	17.2	-	-	-
Delhi	1484	1216	336	321	160	122	18.1	4.4	23.7	37.1	3.7	57.4
All India	43051		12330		3602					41.1	10.0	38.9

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Percentage of failures and percentage of passes in third division in M.A., M.Sc., M.Com. examination.

1973 (Annual) Examination

STATE	No. App. No. Passed		No. App. No. Pass		No. app. No. Pass		Percentage of failure			Percentage of third division		
	M.A.	M.Sc.	M.A.	M.Sc.	M.A.	M.Sc.	M.A.	M.Sc.	M.Com.	M.A.	M.Sc.	M.Com.
Assam	870	570	272	237	53	30	34.5	13.0	43.3	N.A.	N.A.	N.A.
Bihar	927	512	607	213	80	57	44.7	64.9	29.9	46.7	36.8	29.8
Gujarat	1615	1118	1075	904	1154	612	30.8	15.9	47.0	55.3	23.0	74.0
Haryana			18	13	-	-	-	-	-	N.A.	N.A.	N.A.
H.P.	1358	617	47	39	-	-	55.4	17.0	-	80.0	5.1	N.A.
J & K										N.A.	N.A.	N.A.
Karnataka	335	260	289	216	27	14	10.1	18.4	15.0	-	7.9	-
Kerala	1764	1550	1112	994	142	126	13.1	10.6	11.0	33.9	15.8	24.6
M.F.	7712	6568	1527	1347	1072	794	14.8	11.8	25.9	54.1	7.9	46.3
Maharashtra	6007	3932	1723	1452	2300	1237	34.5	15.7	46.2	47.3	11.0	36.1
Orissa										N.A.	N.A.	N.A.
Punjab	1220	1043	25	25	-	-	-	-	-	55.1	12.0	N.A.
Rajasthan	712	593	197	162	161	123	16.7	17.7	23.5	30.2	4.3	26.8
Tamilnadu	2658	1823	1591	1223	179	137	31.4	23.1	23.4	-	1.1	-
U.P.	18649	14662	3804	2727	1121	714	21.4	28.3	36.3	64.4	17.5	44.5
W.B.										N.A.	N.A.	N.A.
Delhi	1792	1611	577	548	190	153	10.1	5.0	19.5	32.6	5.8	33.6
All India	45669	34861	12864	10105	6479	3997	23.6	21.4	38.3	51.7	12.3	43.2

Confidential

UNIVERSITY GRANTS COMMISSION

102

MEETING:

DATED: 12th May, 1975

Item: 17 To consider the rules governing Commission's grant towards Students Aid Fund for the year 1975-76 to affiliated colleges.

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The Commission at its meeting held on 7th May, 1975 (Item 9) had considered the recommendations of the Standing Committee on Welfare of Students. This committee appointed by the Commission to consider programmes for the Welfare of students during the Vth Five Year Plan period had inter-alia recommended that the "Scheme of Students' Aid Fund" may be continued in the 5th Plan. With regard to Students' Aid Fund for colleges, it was suggested that there should be a basic contribution from the UGC according to enrolment plus another contribution as an incentive equal to the amount collected by the college upto ceiling of Rs.5,000/- per college per year. The Commission at its meeting held in May, 1974 considered the above recommendation of the standing committee on welfare of students and decided "the existing scheme for students' aid fund may continue with the following changes. For colleges, the Commission's assistance will be subject to the condition that the colleges raise an equal amount before they are entitled to receive assistance from the University Grants Commission. This would be effective from the academic year 1974-75.

Accordingly the scheme of students' aid fund was modified and the colleges were requested to forward proposals in October, 1974. Between October 1974 and March, 1975, as many as 1330 colleges have been able to avail of assistance under this programme after raising collections from the students. It is for consideration whether the operation of the scheme on a matching basis with collections from students be dispensed with for 1975-76 as some colleges have intimated their difficulties to make collection from students. In the year 1973-74 however, when the amount under students aid fund was sanctioned by the Commission as an out-right grant the number of colleges which could take advantage of the scheme was only 1720. In view of this, it is proposed that the scheme of students aid fund which was modified and implemented in 1974-75 may be continued in 1975-76 with such modifications as are considered necessary for removing certain difficulties experienced while implementing the scheme in 1974-75. The following changes have been proposed in the scheme for implementation in 1975-76:-

- (i) The grant given under students aid fund would be utilised within the academic year i.e. within 1st July, 1975 to 30th June, 1976.

.....2/-

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and not within the financial year i.e. 1.4.75 to 31.3.76. This will help the colleges to make necessary collections from the students at the beginning of the academic session every year and the difficulties regarding collections from students experienced by colleges will be reduced to a great extent.

- (ii) The Principal of the college could forward utilisation certificate signed by him indicating unspent balance for the purpose of sanctioning the grant for 1975-76, if there is any difficulty for issuing a utilisation certificate, as normally prescribed.
- (iii) The colleges would undertake to utilise the grant before 30.6.76 so that it is not carried over beyond that date as the students' aid fund scheme for 1976-77 would relate to the period 1st July 1976 to 30th June, 1977.
- (iv) The students' aid fund will consist of the UGC grant and an equal amount collected from students so that the unspent balance will be adjusted against the succeeding years' amount on the basis of 50 University Grants Commission : 50 college contribution. This has been made specific in the rules.
- (v) The proforma prescribed has been modified to make it self-contained.
- (vi) Necessary changes required in the Utilisation certificate to be issued for the year 1974-75 has also been made.

A revised brochure regarding the establishment of students' Aid Fund in colleges for 1975-76 is placed below for consideration by the Commission.

Annexure

E.O.(CP)



UNIVERSITY GRANTS COMMISSION

F.7-24/74(p/CP)

New Delhi, Dated May, 1975

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To

Principal,  
all Colleges included under Section 2(f)  
of the U.G.C. Act.

Subject: Grant towards Students Aid Fund for 1975-76 to  
Affiliated Colleges.

Sir,

The University Grants Commission has decided that the scheme of Students Aid Fund be continued in the fifth Five Year plan. Accordingly I am writing this letter to invite proposals in this respect from your college, for the year 1975-76.

A copy of the rules is enclosed. It is requested that the proposal in the form enclosed, alongwith the Utilisation Certificate and other documents in respect of earlier grants under this scheme if outstanding, may kindly be sent to the Commission as early as possible and latest by 1st November, 1975.

As the grant towards Students Aid Fund is based on the students enrolment relating to the preceding year ( as on 15th August or 15 days after the close of admission whichever is later), the college is accordingly requested to indicate clearly the students enrolment as on 15.8.74 to avoid any delay in processing the proposal. While doing so, the enrolment figures of the degree classes as well as the enrolment figures at PUC/Pre-degree/Intermediate classes may be separately indicated for purposes of deciding the amount of University Grants Commission grant under this scheme.

It may please be ensured that the name of the college as included in the list of colleges approved under Section 2(f) of the University Grants Commission Act is correctly indicated while submitting proposals.

Yours faithfully,

( R.K. Chhabra )  
Secretary

Encl: As above.

R U L E S

Rules prescribed by the University Grants Commission for the establishment of Students' Aid Fund in the colleges.

1. Each college may have a Students' Aid Fund.
2. The object of this fund is to render financial assistance to deserving students to meet their tuition or examination fees or to purchase books. Limited assistance may be given to the students to meet their hostel, mess, clothing or medical expenses and/or also for meeting bus and/or local train fares, if their needs are considered genuine. No scholarship, stipend, loan, prize, reward etc., will be given from this fund.
3. The constitution, functions and administration of the fund shall be framed by the college and financial assistance given to students in accordance with the rules now framed.
4. The Commission from 1974-75 onwards will give grant towards the students' aid fund to colleges every year and such grant will be equivalent to the amount collected by the college subject to the following limit:-

Enrolment	Amount in Rupees
250 or below	750
Between 251-500	1,000
Between 500-750	1,750
Between 751-1000	2,250
Between 1001-1250	2,750
Between 1251-1500	3,250
Between 1501-2000	3,750
Between 2001-2500	4,250
2501 and above	5,000

Provided that no grant will be sanctioned to a college if its enrolment is below 100 if the college provides two year degree courses and below 150 if the college is providing 3 year degree courses. While determining the Commission's share of assistance the enrolment of pre-university or pre-degree or intermediate

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classes would not be taken into account and all colleges included under Section 2(f) of the UGC Act including professional colleges will be eligible for assistance under the students' aid fund scheme. While the University Grants Commission grant will be equivalent to the amount collected by the college, it is open to the college to make collection from all students including PUC/Intermediate/Postgraduate and it will also be in order if assistance under this fund is given to all students of the college. However, the ceiling of grant payable by the UGC will be determined on the basis of the enrolment in degree classes.

5. The grant for a particular year will be released to the colleges in one instalment on the basis of enrolment figures relating to the preceding year ( as on 15th August or 15 days after the close of admission, whichever is later), on receipt of the following documents:

- a) Utilisation certificate, signed by the Chartered Accountant/Auditor of the Education Directorate, Government Auditor, certifying the utilisation of grant paid in previous year in accordance with the terms and conditions laid down by the Commission. If there is any difficulty for the college to forward such utilisation certificates for the reason that there is some unspent balance etc., a utilisation certificate signed by the Principal of the college will be accepted provisionally. However, the usual utilisation certificate should be forwarded as early as possible.
- b) Enrolment figure as on 15th August of the preceding year or 15 days after the close of admission, whichever is later.
- c) A certificate from the Principal to the effect that a sum of Rs. \_\_\_\_\_ has been collected from the students during the academic year 1975-76.
- d) A certificate showing the unspent balance if any out of the grants released in the previous years signed by the Principal may be forwarded. This will be adjusted against the grant payable the U.G.C.'s share being calculated normally as half the unspent balance so certified.
- e) The college may certify that the grant given under this scheme will be utilised within the academic year 1975-76 i.e. within 1st July, 1975 to 30th June, 1976. The college may

also ensure that grants sanctioned under this scheme are not carried over beyond 30th June, 1976.

- f) Audit fee and such other related expenditure is to be met from the college's own fund.
- g) A certificate from the Principal of the college certifying that the rules framed for the establishment of Students' Aid Fund are in accordance with the general guidelines suggested by the Commission.

All requests for Students' Aid Fund grants from colleges together with the relevant information and documents as detailed above may be forwarded to the Commission before 1st November of each year. If the proposals are received late, they may not be considered generally for sanction of grant unless such delay is due to certain unavoidable and special reasons.

- 6. In the case of newly established colleges, the grant would be paid in one instalment, on the basis of enrolment in that year. Grants to newly established colleges, which come into existence as a result of bifurcation of an old college already being assisted under the scheme would be admissible from the next year.
- 7. As the grant payable under this scheme is on a matching basis, the college will be required to maintain one account both for grant paid by the U.G.C. and the amount collected by the college as contribution, equivalent to grant released by U.G.C. Any amount collected in excess from students may be utilised as the college may decide but may not be part of the fund. Since the matching contribution is on a 50:50 basis, any unspent balance in the fund for a particular year will be adjusted in the same proportion i.e. 50 UGC : 50 college.
- 8. The fund will be administered by the college concerned. Students will be associated in a suitable manner with the body appointed to administer the fund.
- 9. The Principal of the college will be the Chairman of the managing body of the fund.
- 10. The Principal of the college may certify that the constitution and rules have been framed in accordance with the general guidelines suggested by the University Grants Commission for the establishment of student's aid fund.

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11.

The accounts of the students' aid fund are to be got audited from auditors of the college i.e. government auditors/chartered accountant etc. and audit fee or related expenditure is not be met from the student's aid fund. This may be met by the college from its own fund.

UNIVERSITY GRANTS COMMISSION

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PROFORMA FOR FORWARDING PROPOSAL FOR  
RELEASE OF GRANT UNDER THE STUDENTS'  
AID FUND SCHEME FOR THE YEAR 1975-76

(This form is to be used only by colleges which  
received grants under the students' aid fund  
during the year 1974-75 or earlier years)

1. Name of the college \_\_\_\_\_
2. Name of the University \_\_\_\_\_
3. Reference of UGC sanction letter \_\_\_\_\_  
\_\_\_\_\_
4. Total grant received from the UGC under the students'  
aid fund scheme during 1974-75 \_\_\_\_\_
5. Information about unspent balances (if any) out of  
previous grants \_\_\_\_\_
6. Amount collected from students for ~~the 1975-76 year~~  
\_\_\_\_\_
7. Utilisation certificate in the enclosed form for the  
grant paid in 1974-75 (one copy only) \_\_\_\_\_
8. Certificate from the Principal of the college in  
enclosed form.
9. Total number of students enrolled in the college as  
on 15.8.74 or 15 days after the close of admission  
in the academic session 1974-75, whichever is  
later \_\_\_\_\_

Enrolment

- i) P.U.C./Pre-degree/Intermediate
- ii) B.A./B.Sc./B.Com.
- iii) Enrolment of other courses

Dated \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_  
COLLEGE  
\_\_\_\_\_

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UNIVERSITY GRANTS COMMISSION

PROFORMA FOR PROPOSALS FOR GRANTS UNDER THE STUDENTS AID FUND SCHEME FOR YEAR 1975-76

(This form is to be used by colleges which have not received any assistance under the scheme so far. The colleges are requested to satisfy themselves that they are included under Section 2(f) of the UGC Act, as no grant can be paid to colleges not included in the said list. Colleges not included in Section 2(f) of the UGC Act may approach the university concerned for getting their names included in the list).

1. Name of the college \_\_\_\_\_
2. Name of the University \_\_\_\_\_
3. Certificate from the Principal of the college in the enclosed form.
4. Amount collected from students for 1975-76.
5. Total number of students enrolled in the college as on 15.8.74 or 15 days after the close of admission in the academic session 1974-75, whichever is later \_\_\_\_\_

Enrolment

- i) P.U.C/Pre-degree/Intermediate
- ii) B.A./B.Sc./B.Com.
- iii) Enrolment of other courses.

Dated.....

PRINCIPAL

.....COLLEGE

.....

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UTILISATION CERTIFICATE

It is certified that \_\_\_\_\_  
college of the University of \_\_\_\_\_  
has utilised a sum of Rs. \_\_\_\_\_ including the  
grant of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_  
\_\_\_\_\_)

sanctioned by the University Grants Commission towards  
the establishment of students' aid fund vide letter

No. \_\_\_\_\_ dated \_\_\_\_\_

It is also certified that the college has fulfilled all  
the terms and conditions laid down by the Commission in  
this behalf.

Dated \_\_\_\_\_

Chartered Accountant/  
Auditor of the Education  
Directorate/Government  
Auditor

(SEAL)

P.T.O.



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C E R T I F I C A T E

It is certified that \_\_\_\_\_  
College of University of \_\_\_\_\_  
has established Students' Aid Fund which is being  
administered on the basis of the rules and constitution  
framed in accordance with the guidelines suggested by  
the Commission for the scheme.

Dated \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_  
COLLEGE

\_\_\_\_\_

C E R T I F I C A T E

( FOR NEW COLLEGES )

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It is certified that \_\_\_\_\_  
college, of the University of \_\_\_\_\_  
has established students' aid fund and has framed the  
necessary rules and constitution in accordance with the  
guidelines suggested by the Commission.

.....  
Dated \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_  
COLLEGES  
\_\_\_\_\_

UNIVERSITY GRANTS COMMISSION

MEETING:

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DATED : 12th May, 1975

Item No. 18: To consider the proposal of the Roorkee University for running special one year Pre-admission course for Scheduled Castes and Schedule Tribe Students.

The Roorkee University has sent a proposal for running special one year Pre-admission course for Scheduled castes and Scheduled Tribe students to enable them to run at par with other students who are admitted through competitive examination to Bachelor of Engineering Degree Course at an estimated cost of Rs. 92,000/-. The University has indicated that these students mostly belong to villages where facilities for good education are rarely available and come from poor families which cannot afford to send their children to cities to receive better education. A copy of the letter received from the Roorkee University is attached. (Annexure)

The Commission has earlier received a similar proposal from the Banaras Hindu University regarding special coaching to the students belonging to Scheduled castes and scheduled tribes for admission to the 1st Year undergraduate course of the Institute of Technology involving an expenditure of Rs-4,320/- and the University has been advised to meet the expenditure on this account out of the maintenance grant/normal budget of the University.

The matter is placed before the Commission for consideration.

AS(CEI)/J.S(II)

ANNEXURE to Item No.18

Jai Krishna, F.N.A.,  
Vice-Chancellor

S  
E  
A  
L

University of Roorkee  
Roorkee (U.P.)

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No.VC/71/C-2  
Dated March 15, 1975

Dear Sri Chhabra,

We have been admitting scheduled caste students to Bachelor of Engineering Degree course. My past experience shows that these students are not able to run at par with other students who are admitted through competitive examination since these students mostly belong to villages where facilities for good education are rarely available and come from poor families which cannot afford to send their children to cities to receive better education. Taking into account this fact, it is proposed that a special one year preadmission course be run so that they could compete with other students in the competitive examination for admission after undergoing this course.

An estimate of expenditure has since been prepared for 60 students for the purpose and is enclosed. I hope, you will agree with this proposal in principle and sanction the expenditure so that further action may be taken in the matter for admission to the special course in July, 75.

With best wishes,

Yours sincerely,  
Sd/-  
Jai Krishna

Shri R.K. Chhabra,  
Secretary,  
University Grants Commission,  
Bahadur Shah Zafar Marg,  
New Delhi.

Encl: Estimate of  
expenditure.

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Enclosure

Estimate of expenditure to be incurred for running Special One Year Pre-admission course for Scheduled Caste and Scheduled Tribe Students.

<u>S.No.</u>	<u>Details</u>	<u>Scale of Pay</u>	<u>No.</u>	<u>Annual Expenditure</u>
1.	Lecturer	Rs.700-1600	4	Rs. 55,000/-
	Add 20% for dearness allowance and provident fund etc.			<del>Rs. 11,000/-</del> Rs. 66,000/-
2.	Salary of non-Teaching Staff			Rs. 14,000/- Rs. 80,000/-
3.	Maintenance expenditure at Rs. 200/- per student per year for 60 students			Rs. 12,000/-
			Grand Total . .	<u>Rs. 92,000/-</u>

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION



Meeting:

Dated: 12th May, 1975

Item No. 19: To consider further the question of reservation for Scheduled Castes and Scheduled Tribes in the matter of appointments to teaching posts in the Universities.

The Commission at its meeting held on 10th March, 1975 considered a reference from the Parliament Forum for Scheduled Castes and Scheduled Tribes regarding reservation for Scheduled Castes and Scheduled Tribes for appointments to teaching posts in the universities. A copy of the note placed before the Commission is enclosed (Annexure).

The Commission noted that according to the information available, no central university is having reservation in the academic posts for scheduled castes and scheduled tribes.

The Commission desired that as earlier agreed to, the question of reservation of posts for members belonging to scheduled castes and scheduled tribes in the universities for teaching appointments may be further discussed with the Commissioner for Scheduled Castes and Scheduled Tribes. Accordingly, the matter was discussed by the Vice-Chairman, University Grants Commission, with the Commissioner of Scheduled Castes and Scheduled Tribes on the 30th April, 1975. Secretary, U.G.C. was also present at the discussion.

The Vice-Chairman explained the steps already taken by the Commission with a view to help the students coming from weaker sections of the society viz., (a) special assistance to colleges located in the backward areas, (b) reservation of seats for scheduled castes and scheduled tribes (i) in hostels constructed with assistance from the University Grants Commission (ii) award of fellowships and Research Associateships and (iii) admission of students in different courses.

The Commissioner of Scheduled Castes and Scheduled Tribes appreciated the steps taken by the University Grants Commission. While agreeing with the revised qualifications prescribed by the University Grants Commission for future recruitment to the posts of Lecturers, he stressed that the

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universities and colleges should provide for reservations and best amongst scheduled castes/scheduled tribes candidates who fulfil the minimum qualifications should be appointed. He agreed that there should be no relaxation of minimum qualification while making recruitment against the reserved quota.

Vice-Chairman, while pointing out that in the universities, recruitment to the posts of Professors, Readers and Lecturers at each state is done by open advertisement and not by promotions, agreed to place the suggestion of the Commissioner before the Commission for consideration.

The Commissioner stressed the following other points:-

- the
- (a) The Central Universities should observe the reservation for scheduled castes/scheduled tribes while making appointment to non-teaching posts.
  - (b) University Grants Commission may also advise the State Governments and State Universities to provide for such reservation and
  - (c) there should be reservation of seats for admission at the postgraduate level as in the case of undergraduate courses.

The matter is placed before the Commission for consideration.

E.O.(CP)

'CHUGH'

*Annexure to item No. 1*

UNIVERSITY GRANTS COMMISSION

Meeting:  
Dated : 10th March, 1975

Item No. 33: To consider a reference from the Parliament Forum for Scheduled Castes and Scheduled Tribes regarding reservation for Scheduled Castes and Scheduled Tribes for appointment to teaching posts in the universities.

One of the conditions for introduction of the revised scales of pay for teachers in the Central Universities is that recruitment to all categories of teachers - Lecturers, Readers and Professors in the Universities (and of Lecturers and Principals of Colleges of Delhi University) shall be made strictly on merit and on the basis of all-India advertisement and selection. The qualifications prescribed for the posts of teachers should essentially be related to the academic attainments in the subject concerned and should not be linked with language or other regional considerations. Appointments should not be made on communal or caste consideration. The Selection Committees should have outside experts and their constitution should be prescribed by the Statutes.

The Director, Parliament Forum for Scheduled Castes and Scheduled Tribes has suggested that a clarification may be issued by the University Grants Commission so that the condition indicated above is not misunderstood by the recruiting authorities to rule out reservations in teaching posts for Scheduled Castes and Scheduled Tribes. A copy of the letter is attached.

*Appendix*

The Commission in its meeting held on November 30, 1968, considered a reference from the Indian Institute of Science, Bangalore for reservation of posts for members belonging to Scheduled Castes and Scheduled Tribes in the Institute and resolved as follows:-

"The Commission was of the view that since teachers have a crucial role, a large 'multiplier effect' on quality of education, all efforts should be made to appoint the best available persons in the universities and colleges. In this connection, the Commission felt that it would not be in the interest of the Scheduled Castes and Scheduled Tribes themselves, if any considerations were brought in which would stand in the way of appointing to teaching posts the most qualified and competent persons".



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The Ministry of Education & Social Welfare had subsequently enquired whether the University Grants Commission would like to reconsider its decision in the matter. The Commission on reconsideration at its meeting held in October 1972 resolved that this may be discussed with the Commissioner for Scheduled Castes and Scheduled Tribes and the matter brought up before it at a later meeting. Since then efforts were made to hold a discussion on this at the level of Commission's Chairman with the Commissioner for Scheduled Castes and Scheduled Tribes but for a variety of reasons including the change in the incumbency of the Chairman and the non-availability of certain connected papers, it has not been possible for the Commission to hold this discussion so far.

The matter is placed before the Commission for consideration.

\*SCC\*

Appan chiu.

Copy of a D.O. letter No.14(4)-PFSCT/74-75 dated 15th January, 1975 addressed to Professor Satish Chandra, Vice-Chairman, University Grants Commission, New Delhi from Shri Vinay Chandra, Director, Parliamentary Forum for Scheduled Castes and Scheduled Tribes, 46, North Avenue, New Delhi. (12)

We understand that on the 11th November, 1974, the University Grants Commission have addressed a letter to the University of Delhi, and perhaps to other Universities also, regarding the revision of the pay scales of teachers. We are also given to understand that in that letter the Commission have told the Universities not to make any appointments on communal or caste considerations.

While we agree that such considerations should not play any part at all in the selection of teachers in the Universities, and for that matter in any other field, we are afraid that this particular condition as worded at present, may not be misunderstood by the recruiting authorities to rule/reservations in teaching posts for the Scheduled Castes and Scheduled Tribes, which apparently is not the intention of these orders. It is, therefore, but necessary to issue a suitable clarification in the matter and we hope that you will kindly do so immediately.

In our Constitution also it is clearly laid down that there shall be equality of opportunity for all citizens in matters relating to employment or appointment to any office under the State and also that no citizen shall be discriminated against, for this purpose, on grounds only of religion, race, caste, sex, descent, place of birth, residence or any of them. At the same time the Constitution provides for the claims of the members of the Scheduled Castes and Scheduled Tribes to be taken into consideration in the making of such appointments and for that purpose the State has been empowered to make any provision for the reservation in services and posts in favour of these communities, and also other backward classes of citizens not adequately represented in the State services. It is evident from these constitutional provisions that the intention of the Makers of the Constitution is to ensure that the Scheduled Castes and Scheduled Tribes also get adequate representation in services and posts under the State which according to the definition given in article 12 of the Constitution includes inter-alia all local or other authorities within the territory of India. These, and other provisions made in the Constitution for the welfare of these Weakest Sections of our Society, can be understood and appreciated best by enlightened bodies like the University Grants Commission, and you will appreciate that any instructions that may be issued by any authority against the above spirit of the provisions made in our Constitutions will not only be unconstitutional, and as such illegal, but will in fact amount to rape on the Constitution.

In any case, as already stated above, the intention of the above orders issued by your Commission does not apparently imply any

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breach of the constitutional provisions leading to reservations in the teaching posts under the various Universities, for the scheduled castes and scheduled tribes. This intention of the Commission does, however, require a clarification to avoid any misunderstanding on the part of the recruiting authorities while interpreting your instructions not to show any communal or caste considerations in such matters.

We would be grateful for a very early action in the matter and also an early reply as regards the action taken.

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Hand No 20

III  
Appendix to minutes of the U.G.C.  
meeting dated 12.5.1975 (Item No.20)

BUDGET ESTIMATES FOR 1975-76 (PLAN)

	<u>Budget Estimates in lacs of Rupees</u>
A. Grants to Central & State Universities for Humanities	257.25
B. Grants to Central & State Universities for Science.	769.51
C. Grants to Central & State Universities for Engg. & Tech.	285.31
D. Grants to constituent/affiliated colleges	466.95
E. Grants to Central & State Universities for Misc. Schemes.	1,322.01
F. Misc. Expenditure	32.05
Total:	<u>3,133.08</u>
Ad-hoc requirement on the basic of recommendations of Visiting Committees to Universities.	400.00
GRAND TOTAL:	<u>3,533.08</u>

The Budget Estimates of 1975-76 also includes the following:

1) Engg. & Tech.	285.31
I.I.Sc. Bangalore	106.06
Indian School of Mines, Dhanbad	10.00
	<u>401.37</u>
2) Provision for Medical Colleges & Hospitals attached to Central Universities.	153.80

A. GRANTS TO CENTRAL AND STATE  
UNIVERSITIES FOR HUMANITIES.

Budget Estimates  
1975-76 (in lakhs)

1. Staff	44.55
2. Buildings	37.75
3. Equipment (Technical)	7.60
4. Books and Journals	49.50
5. <u>Support for Research</u>	
a) Centres of Advanced Study	9.00
b) Special Assistance to selected Departments . . . . .	4.00
c) Area Studies.	13.25
d) Financial assistance to teachers for research work	4.00
e) Project support	6.25
f) Departmental/Institutional support	-
g) Research fellowships	80.20
6. Other schemes.	1.15
7. Support from Research and Development	-

TOTAL 'A' 257.25

B. GRANTS TO CENTRAL AND STATE UNIVERSITIES FOR SCIENCE.	Budget Estimates 1975-76(in lakhs)
1. Staff	23.85
2. Buildings.	70.70
3. i) Payment under Dollar Loan for Equipment	-
ii) Other equipment	162.15
4. Books and journals	50.80
5. <u>Support for Research</u>	
a) Centres of Advanced Study	76.45
b) Special assistance to selected Departments.	70.21
c) Financial assistance to teachers for research work	11.50
d) Project support	85.00
e) Department/Institutional support	20.00
f) Research Fellowships.	111.85
6. Development of Computer facilities.	66.50
7. Central Instrumentational facilities.	20.00
8. Other schemes.	0.50
9. Support from Research. and Development.	-
TOTAL 'B'	769.51

C. GRANTS TO GENERAL AND STATE  
UNIVERSITIES FOR ENGINEERING  
AND TECHNOLOGY.

(B.E. 75-76  
Rs. in lakhs)

1. Staff and maintenance	50.00
2. Construction of buildings.	50.00
3. Purchase of equipment	75.00
4. Library books and journals	20.00
5. Misc. schemes.	2.00
6. Junior fellowships.	75.00
7. Research fellowships.	10.66
8. Construction of hostels.	2.10
9. Construction of staff quarters.	0.05
10. Revision of salary scales.	0.50

TOTAL 'C' 285.31

D. GRANTS TO CONSTITUENT/ <u>Affiliated colleges.</u>	B. E. 75-76 (Rs. in lakhs)
1. Three lakh scheme (continuing from IVth Plan)	
a) Construction of hostels	40.00
b) Laboratory and Library facilities	100.00
c) Construction of staff quarters	30.00
d) Books and Journals	10.40
e) Improvement of Chalk Boards.	1.35
f) Overhead tanks	1.95
g) Cycleshed	3.25
h) Non-Resident Students Centres	17.50
2. Development schemes of colleges to be initiated in Vth Plan.	50.00
3. Development of Postgraduate Studies in Science.	22.40
4. Development of Postgraduate studies in Humanities and social sciences.	11.30
5. Development of colleges in <u>Metropolitan cities</u>	
a) Grants to constituent/ Affiliated colleges of Delhi University for specific purpose.	52.20
b) Maintenance grants to newly established colleges.	-
6. Grants to teacher training colleges.	20.00
7. Development of Autonomous colleges.	15.00



D. CONTD.

8. Students Welfare Programmes

a) Student Aid Fund	35.45
b) Canteens including NRSC	-
c) Water coolers.	0.05
d) Welfare Programme in colleges	4.15
e) Health Centres.	2.25
f) Book Banks	46.00
g) Employment information, career advising and vocational guidance	0.30
9. Centenary Grants	1.95
10. Revision of salary scales	0.75
11. Miscellaneous.	0.70

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TOTAL 'D' 466.95

E. GRANTS TO CENTRAL AND  
STATE UNIVERSITIES FOR  
OTHER SCHEMES

B. F. 1975-76  
(Rs. in lakhs)

1. Grants to Jawaharlal Nehru University	159.80
2. Grants to North Eastern Hill University	70.00
3. Grants to Indian Institute of Science, Bangalore.	106.06
4. Grants to Indian School of Mines, Dhanbad.	10.00
5. Grants to New Central Universities (Hyderabad and Pondicherry)	75.00
6. University Postgraduate Centres.	56.35
7. College Science Improvement Programme.	120.00
8. College Humanities Improvement Programme.	15.00
9. <u>Faculty Awards</u>	
a) National Fellowships	3.50
b) National Lecturers.	-
c) National Associates.	2.00
d) Sabbatical leave.	0.60
e) Visiting Professorships.	0.30
f) Utilisation of services of retired teachers.	14.00
g) Research Associateships.	7.50
10. <u>Faculty Improvement Programme.</u>	
a) Summer Institutes.	89.00
b) Seminars, Orientation courses and conferences.	15.00
c) Training programme for Laboratory & Workshop technicians.	-
d) New programmes	-

E. Contd.

	<u>B. E. 1975-76</u> (Rs. in Lakhs)
11. Examination Reforms Science Education and Restructuring of courses.	50.45
12. Correspondence courses	16.00
13. Unassigned grants	24.15
14. Publication of research work (including doctorate thesis)	8.75
15. Adult education	5.50
16. Construction of library buildings.	20.60
17. <u>Construction of residential accommodation for teachers</u>	
a) Staff quarters.	34.50
b) Teachers hostels.	15.95
18. a) Construction of hostels.	50.60
b) Improvement of hostel facilities.	0.55
19. Guest Houses.	3.00
20. Printing Press	2.40
21. <u>Welfare Schemes.</u>	
a) Students Aid Fund	12.85
b) Non Resident Students Centre	1.90
c) Student Study Homes.	8.50
d) Health Centres.	9.25
e) Water coolers	2.00
f) Study centres	16.20
g) Visiting Studentships	0.15
h) Employment information career advising and educational guidance for university students.	2.30
22. <u>Scholarships</u>	
a) Arabic and Persian	0.70
b) Hill Area scholarships.	3.10
c) Sanskrit/Pali/Prakrit	0.70
23. Cultural and Bilateral Exchange Programmes.	8.20

<u>E. Contd.</u>	<u>B. E. 1975-76</u> <u>(Rs. in lakhs)</u>
24. Indo-USSR Credit project.	12.00
25. <u>Medical colleges</u> <u>(Central Universities)</u>	
a) <u>ALIGARH MUSLIM UNIVERSITY</u>	
i) Building	6.20
ii) Equipment	2.65
iii) Library	1.60
iv) Furniture	0.75
v) Staff & Maintenance	0.30
vi) Other schemes.	5.85
b) <u>BANARAS HINDU UNIVERSITY</u>	
i) Buildings	5.05
ii) Equipment	7.60
iii) Library	1.20
iv) Furniture	-
v) Staff & Maintenance	1.25
vi) Other scheme	1.40
c) <u>DELHI UNIVERSITY</u>	
i) Buildings	
ii) Equipment	
iii) Library	
iv) Furniture	21.50
v) Staff & Maintenance	
vi) Other schemes.	
26. <u>Hospitals attached to</u> <u>Medical colleges of</u> <u>central universities</u>	
i) Non-recurring	72.55
ii) Recurring	25.90
27. Development of Campus (Central Universities)	30.00
28. Students Amenities (Central Universities)	23.40

<u>E. Contd.</u>	<u>B.F. 1975-76</u> <u>(Rs. in lakhs)</u>
29. Revision of salary scales of non-technical teachers.	5.00
30. Centenary and Jubilee grants	23.50
31. Three Year Degree Course	-
32. Establishment of Tagore Chairs.	0.70
33. Nanak Chairs & Nanak Centenary	-
34. Gandhi Centenary Programmes.	0.25
35. Gandhi Bhavan.	0.25
36. Collection and Preservation of Manuscripts.	0.30
37. Appointment of Development Officers,	1.40
38. Appointment of Trained coaches.	0.25
39. National Service Scheme.	- (Transferred to Section III)
40. Travel grant to Research fellows/scholars/college teachers for attending conferences within the country and abroad.	1.30
41. Miscellaneous.	27.45
TOTAL 'E'	<u>1322.01</u>

<u>F. MISCELLANEOUS EXPENDITURE</u>	<u>B. E. 1975-76</u> <u>(Rs. in lakhs)</u>
I. Summer Institutes	1.00
II. Cultural and Bilateral Exchange Programme.	11.30
III. Centres of Advanced Study	1.00
IV. TA & DA to non-official members	5.00
V. Additional staff for implementation of Vth Plan scheme	5.00
VI. Publication	5.00
VII. Capital expenditure on UGC. <u>building:</u>	
a) Purchase of electric appliances/air-conditioners etc.	0.25
b) Purchase of motor vehicles.	0.25
c) Construction of UGC Annexe.	-
d) Air-conditioning of building	-
VIII. National Lecturers.	3.00
IX. Status report on various disciplines etc.	0.25
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TOTAL 'F'	32.05

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated : 12th May 1975

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Item No. 31: To consider certain establishment matters of University Grants Commission.

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To consider the request of Shri S.P. Bhatia, Personal Assistant, for further extension of time-limit for completion of construction of the house.  
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The Commission at its meeting held on 10th February, 1975 (Item No. 33) agreed to (i) grant of additional amount of House Building Advance of Rs. 8,175/- to Shri S.P. Bhatia, as a special case, and (ii) extension of time-limit upto 3rd April, 1975, for completion of his house. After completion of the formalities as required under the rules, Shri S.P. Bhatia was able to draw the amount in the last week of March, 1975 and as such has not found it possible to complete the house. Shri Bhatia has, therefore, requested for further extension of time-limit for completion of the house by six months as per copy of his letter attached. (Annexure).

The construction site of Shri S.P. Bhatia has been visited by an officer of the Commission to assess the progress of construction and the probable time required for completion of the unfinished items of work. On the basis of the report submitted by the officer, it is felt that further extension of three months from 3rd April, 1975 would be adequate to enable Shri Bhatia to complete the house and observe the required formalities. According to Rule 7(a) (ii) of the Rules regulating the House Building Advances to Central Government servants (as applicable to the UGC employees), an extension of the time-limit is permissible to be allowed upto one year by the Head of the Department and for a longer period by Government in those cases where the work is delayed due to circumstances beyond the control of the Government servants. In view of the circumstances stated above, it is proposed to grant further extension of time-limit beyond 3rd April, 1975 for three months to Shri S.P. Bhatia, Personal Assistant, for completion of the house as well as the formalities as required under the rules.

The matter is placed before the Commission for consideration.

AS(A-I)/F.O.

\*SCC\*

P.T.O

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Annexure to Item No. 21(1)

The Assistant Secretary (Admn. I)  
University Grants Commission,  
Bahadur Shah Zafar Marg,  
New Delhi.

Subject:- Request for extension of time-limit for  
completion of house.  
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Sir,

It is submitted that the Commission had, at its meeting held on 10th February 1975, agreed to grant me additional amount of house building advance, and also granted extension of the time limit upto 3rd April, 1975 for the completion of my house. In this connection, I beg to submit as under:

Though the amount was sanctioned to me during the month of February but I could actually receive it in the last week of March. In view of the late receipt of funds it was not possible for me even to go to the market earlier for making necessary purchases.

Further I would have gone on leave immediately after the release of the above mentioned funds but due to non-availability of substitute to work with Secretary, the Office has not yet sanctioned my requested leave in spite of the fact that I applied for the same on the 1st of April 1975. Without adequate time at my disposal it is not possible for me either to supervise the construction work or to go to market for making necessary purchase. I hope the Office will now kindly grant me the requested leave as early as possible.

In view of the above circumstances, I shall be grateful to the office if it kindly agrees to extend the time limit by another six months to enable me to get the work completed.

Thanking you,

Yours faithfully,

Dated: 4th April, 1975

Sd/-  
(S.P. Bhatia)  
P.A.

\*SCC\*



UNIVERSITY GRANTS COMMISSION

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Meeting:

Dated: 12th May, 75'

Item No: 22 To consider a proposal received from the Visva-Bharati relating to the comprehensive programme of Pali Samgathana Vibhaga, Sriniketan.

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Visva Bharati University had under consideration for sometime to implement the rural service scheme of Palli Samgathana Vibhaga. The Adhyaksha Palli has in consultation with the district authorities of Birbhum prepared a comprehensive development scheme for 25 villages around Shantiniketan as part of rural extension service of Visva-Bharati. A copy of the letter addressed by the Adhyaksha, Palli Samgathana Vibhaga, Sriniketan to the District Magistrate of Birbhum which indicates the requirements of the University for this programme for the 5 years is enclosed as annexure 1. It would be observed that the total financial implications in respect of the proposals which comprise mainly the appointment of staff amounts to Rs. 4 lakhs. In addition, the University proposes to purchase a vehicle for this Vibhaga though the cost of which has not been indicated. In the fifth plan proposals submitted by the University, it has made a provision for the post of special officer(rural extension), the Vice-Chancellor has suggested that a sum of Rs.4 lakhs in respect of the above scheme may be placed at the disposal of the University outside the fifth plan allocations of the University which is yet to be finalised by the Commission and that permission may specially be accorded for the creation and filling up of the post of a Special Officer (rural extension).

It may be mentioned that the Government of India in the Ministry of Education has appointed a Review Committee to assess the working of the Visva-Bharati and its future set up. The Committee has yet to submit its report which may take another month or so. The UGC Visiting Committee to assess the requirements of the Visva-Bharati in the fifth plan would be sent after the report of the review committee is available and as this may take sometime, the proposal of the Visva-Bharati for provision to be made for rural service programme is placed before the Commission for consideration.

Annexure to Item No.22

Copy of the letter No. SRK/2712/74-75 dated 13.1.75 from Shri Prabhas Sen Adhyaksha, Visva-Bharati, Palli Sangathana Vibhaga, Sriniketan, West Bengal, to Shri P.K. Banerjee, I.A.S., District Magistrate & Collector, Birbhum, Suri. (127)

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I am sending herewith the paper showing our minimum requirements for next 5 years of staff and a vehicle that we need to make our Comprehensive Development Scheme for 25 villages successful.

I understand that in the present financial position of the University there is little chance of getting the additional posts essentially required for the successful implementation of our schemes.

We have now completed socio-economic data collection for 8 villages and have identified and surveyed the area for irrigation and all viable Cottage Industry Schemes for subsidiary occupations of the villagers. 70% of 1250 families living in these villages will be covered by the subsidiary occupation schemes within next 6 months. Banks, Khadi Commission and the State Directorate of Small & Cottage Industries will give technical know-how and finance for the various schemes.

By the end of the next financial year we hope to cover all the 25 villages consisting of about four thousand families.

We have reached the point when we must know how much commitment we can undertake with confidence.

The new plan of rural work of Visva-Bharati has generated great enthusiasm in the villages, particularly among village youth. They are planning their own village development programmes and are relying on us for full guidance and organisation.

I have given in the paper enclosed our minimum requirements of additional staff as desired by you as far as I can visualise at the present moment. I have a feeling that we should have minimum two field staff for the Ambar Charkha-cum-Weaving and their marketing scheme, as this is going to be the largest area of work after Agriculture. Whereas

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-2-

in agriculture our Agricultural College and the local Block and Farm will be able to help to some extent with know-how etc. (Agri. College has no extension field staff) and the products have no marketing problems the spinning and Weaving Extension and marketing will have to be done by us all by ourselves. But in view of the general crisis, we are at present asking for only one post.

We have asked for a post of Technical Superintendent, Survey and Investigation who will be in-charge of analysis and documentation of the whole programme from all aspects of planning, implementation, assessment of success and failures etc. and preparation of papers for publication.

I have already mentioned to you that in the Cottage Industries Centre we have no Designer and in the Village Extension Section have only 3 staff for extension work- one for Adult Education and two for rural youth organisation and Brati-Balak organisation.

We have therefore asked in the enclosed paper only two posts for Cottage Industries Centre-one for a Senior Designer for Textile section and a post of Technical Assistant for Ceramics Section. The Ceramics Section has taken up extension work among villagers. The Technical Assistant will guide the village units to construct and fire low cost-low temperature kilns and in making and application of glazes etc.

For Village Extension Centre we need one post of Special Officer, Village Extension who will coordinate all aspects of extension work, 1 post of technical Superintendent as mentioned earlier, 3 field organisers-one for weaving -cum- spinning, one for extension services in the field of Agriculture and one for extension work in the fields of other Cottage Industries and Handicrafts.

Silpa-Sadana at present markets mainly weaving products, some Batik, Leather-work and Ceramics. Annual production and sale is about Rupees two lacs only.

With the new development programme we shall have to organise marketing of products of varied nature costing more than 15 lacs annually by 3 years' time. Present sales staff consists of salesmen only working under general supervision of Office Superintendent of the Cottage Industries Centre. We have, therefore, asked for a post of Superintendent, Sales Promotion and Market Research. To strengthen our small Accounts Office to handle the added workload, we have asked for a post of an Accounts Assistant. For the rural Extension Services that we are organising in the Comprehensive Development area- we have asked for a vehicle(Jeep) and a Driver.

With kindest regards,

Sd/ Prabhas Sen

VISVA-BHARATI  
PALLI SAMGATHANA VIBHAGA  
SRINIKETAN

Statement showing financial implication for 5 years for Additional posts  
required for the Comprehensive Development Programme

<u>Designation</u>	<u>Scale of Pay</u>		<u>1st year</u>	<u>2nd year</u>	<u>3rd year</u>	<u>4th year</u>	<u>5th year</u>	<u>Total</u>
<u>Cottage Industries Centre /</u>								
1. Designer (Textile)	Rs. 1100-1600/-	Pay.	13,200	13,800	14,400	15,000	15,600	
		D.A.	1,944	1,944	1,944	1,944	1,944	
		P.F.	1,056	1,134	1,152	1,200	1,248	87,480
			<u>16,200</u>	<u>16,848</u>	<u>17,496</u>	<u>18,144</u>	<u>18,792</u>	
2. Technical Assistant (Ceramics)	Rs. 330-560/-	Pay	3,960	4,080	4,200	4,320	4,440	
		D.A.	713	614	756	778	799	
		P.F.	317	326	336	346	355	26,340
			<u>4,990</u>	<u>5,020</u>	<u>5,292</u>	<u>5,444</u>	<u>5,594</u>	
<u>Rural Extension Centre</u>								
3. Special Officer (Rural Extn.) (This post has been included in University 5th Plan proposal. If it is sanctioned under Plan, no further financial assistance will be required.)	Rs. 700-1300/-	Pay	8,400	8,880	9,360	9,840	10,320	
		D.A.	1,512	1,598	1,685	1,771	1,858	
		P.F.	672	710	749	787	826	58,968/-
			<u>10,584</u>	<u>11,188</u>	<u>11,794</u>	<u>12,398</u>	<u>13,004</u>	
4. Technical Superintendent (Survey & Investigation)	Rs. 550-900/-	Pay	6,600	6,900	7,200	7,500	7,800	
		D.A.	1,188	1,242	1,296	1,350	1,404	
		P.F.	528	552	576	600	624	45,360/-
			<u>8,316</u>	<u>8,694</u>	<u>8,072</u>	<u>9,450</u>	<u>9,828</u>	

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	Scale of pay		1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.	Total
5. Superintendent (Sales Promotion & Market Research)	Rs. 550-900/-	Pay	6,600	6,900	7,200	7,500	7,800	
		D.A.	1,188	1,242	1,296	1,350	1,404	
		P.F.	528	552	576	600	624	
			<u>8,316</u>	<u>8,694</u>	<u>9,072</u>	<u>9,450</u>	<u>9,828</u>	45,360/-
6. Field Organiser (Agriculture Extn.)	Rs. 425-700/-	Pay	5,100	5,280	5,460	5,640	5,820	
		D.A.	918	950	983	1,015	1,448	
		P.F.	408	422	437	451	466	
			<u>6,426</u>	<u>6,652</u>	<u>6,880</u>	<u>7,106</u>	<u>7,734</u>	34,798/-
7. Field Organiser (Weaving & Spinning)	-do-	Pay	5,100	5,280	5,460	5,640	5,820	
		D.A.	913	950	983	1,015	1,448	
		P.F.	408	422	437	451	466	
			<u>6,426</u>	<u>6,652</u>	<u>6,880</u>	<u>7,106</u>	<u>7,734</u>	34,798/-
8. Field Organiser (Cottage Industries & Handicrafts)	-do-	Pay	5,100	5,280	5,460	5,640	5,820	
		D.A.	918	950	983	1,015	1,448	
		P.F.	408	422	437	451	466	
			<u>6,426</u>	<u>6,652</u>	<u>6,880</u>	<u>7,106</u>	<u>7,734</u>	34,798/-
9. Accounts Assistant	-do-	Pay	5,100	5,280	5,460	5,640	5,820	
		D.A.	918	950	983	1,015	1,448	
		P.F.	408	422	437	451	466	
			<u>6,426</u>	<u>6,652</u>	<u>6,880</u>	<u>7,106</u>	<u>7,734</u>	34,798/-
10. Driver	Rs. 260-400	Pay	3,120	3,192	3,264	3,336	3,408	
		D.A.	749	766	783	801	817	
		P.F.	250	255	261	267	273	
			<u>4,119</u>	<u>4,213</u>	<u>4,308</u>	<u>4,404</u>	<u>4,498</u>	21,542/-
Total:			<u>78,229</u>	<u>81,265</u>	<u>84,554</u>	<u>87,714</u>	<u>92,480</u>	4,24,242/-