

**MINUTES OF THE 183RD MEETING OF THE
UNIVERSITY GRANTS COMMISSION
HELD ON SEPTEMBER 22, 1986.**

UGC

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Minutes of the 183rd meeting of the University Grants Commission held on September 22, 1976.

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The following were present:

Professor Satish Chandra	-	Chairman
Professor B. Ramachandra Rao	-	Vice-Chairman
Sri K.N. Channa	-	Member
Professor A.P. Bambah	-	Member
Professor S.S. Saluja	-	Member
Professor (Miss) A.J. Dastur	-	Member
Professor S. Gopal	-	Member
Professor J.B. Chitambar	-	Member
Professor Maqbool Ahmed	-	Member
Professor B.M. Udgaonkar	-	Member
Dr. Chandran D.S. Devanesen	-	Member
Sri R.K. Chhabra	-	Secretary

Dr. Ajit Mozoomdar regretted his inability to attend the meeting.

SECRETARIAT

Additional Secretary

Dr. D. Shankar Narayan

Joint Secretaries

Dr. J.N. Kaul

Dr. S.K. Dasgupta

Deputy Secretaries

Shri S. Viswanath

Shri I.K. Sangma

Dr. S.C. Goel

Shri S.P. Gupta

Dr. M.L. Mehta

Shri A.B. Gupta

Director(SRC)

Dr. Jagdish Shankar

Finance Officer

Shri R.P. Bhattacharjee

p.t.o.

: 2 :

Item No.1: To receive the minutes of the meeting of the Commission held on 23rd August, 1976.

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The minutes of the 182nd meeting of the Commission held on August 23, 1976, were confirmed.

Arising out of the minutes, it was suggested that the universities which have instituted M.Litt/M.Phil. courses may be requested to send a copy each of the Statutes, Ordinances and Regulations framed by them for instituting such courses. The Commission may also lay down, in consultation with subject panels, norms of staff and other facilities required for departments to start M.Phil. courses so as to ensure adequate standards.

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

(b) To receive the items of information: . . .

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

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

(b) This was noted.

(c) This was noted.

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Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 23rd August, 1976.

The Commission approved the grants released after the last meeting of the Commission held on August 23, 1976 (Appendix II*).

...

Item No.4: To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 31st July, 1976.

This was noted.

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*Not enclosed.

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Item No.5: To receive the Annual Accounts of the University Grants Commission for the year 1973-74 as presented to the Parliament under Section 19(4) of the University Grants Commission Act, 1956.

The Commission received the Annual Accounts for 1973-74 and approved the replies to the audit objections as given in Appendix III*.

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Item No.6: To consider further the question of eligibility of Law Colleges, Colleges of Physical Education, Home Science Colleges, School of Social Work, Colleges of Fine Arts and Music etc. for assistance under 1.5 lakh scheme.

It was agreed that the criteria for giving development grants to law colleges, colleges of physical education, home science colleges, school of social work, colleges of fine arts and music etc., may be worked out by the respective panels or by a special committee if there is no panel in a subject.

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Item No.7: To consider the question of relaxing the minimum eligibility condition for the award of Junior Fellowships in favour of the candidates belonging to Scheduled Castes/Scheduled Tribes.

The Commission was not in favour of relaxation of general eligibility condition in respect of Scheduled Caste and Scheduled Tribe candidates for award of fellowships. Specific cases which merit special consideration for relaxation could, however, be referred to the Commission.

Item No.8: To consider the references received from the Osmania and Andhra Universities regarding reservation for Scheduled Castes and Scheduled Tribes for teaching posts.

This was noted.

...

*Not enclosed

p.t.o.

Item No.9: To consider a proposal of Aligarh Muslim University for imparting special instruction to the candidates belonging to Scheduled Caste/Tribes/Backward Classes, etc. to be admitted to the B.Sc. Engineering courses in the Z.H. College of Engineering & Technology.

The Commission accepted in principle the need for organising pre-examination remedial courses in engineering and medical subjects for candidates belonging to scheduled castes and scheduled tribes on the following conditions:

a) The University has prescribed in its admission rules the reservation of seats for scheduled castes and scheduled tribes students as provided by the Government of India.

b) Admission to the remedial courses is for the purpose of preparing such students to appear at the competitive examination for admission to the Engineering Medical courses on an all-India basis.

c) The number of students admitted to this remedial course does not exceed 2 to 3 times the total number of seats reserved for such candidates in the concerned course of that university.

d) Trainees admitted to this course may be provided a financial subsidy to meet the cost of messing in the hostels (hostel accommodation to be provided free by the university concerned), provided that only such trainees will be eligible for this subsidy, who if admitted to the course for which they are being trained would be entitled to receive scholarships for scheduled castes and scheduled tribes, as provided by the Government of India.

e) These courses may be run for the admissions of the academic year 1977 and 1978, as pilot projects and the position reviewed thereafter.

f) The remedial courses should be organised with the help of the existing facilities and only marginal assistance may be available for running them.

While the scheme outlined above may be brought to the notice of all the universities, the Aligarh Muslim and Roorkee Universities may be asked to revise their proposals in the light of the above and send the same for the consideration of the Commission.

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Item No.10: To consider the proposal of Sardar Patel University for the conversion of one of the three posts of Readers approved by the Commission for the Department of Chemistry during the Fifth Plan period into that of a Professor.

The Commission could not accept the proposal of the Sardar Patel University for converting the post of a Reader in Theoretical Chemistry to that of a post of Professor in Theoretical Chemistry/Inorganic Chemistry.

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Item No.11: To consider the proposal of the Jabalpur University for the construction of Students' Home.

The Commission could not accept the proposal of the Jabalpur University for construction of a students' home.

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Item No.12: To consider the proposal of Bangalore University for the conversion of a post of Reader in the Department of Political Science into two lectureships and change of specialisation of one of the three posts of Readers approved in the Department of Education.

The Commission regretted its inability to accept the proposal of Bangalore University for the conversion of one post of the Reader in the Department of Political Science into two Lecturerships. With regard to the change in specialisation of the post of Reader in the Department of Education, it was agreed that the University be advised to take up this matter with the Commission after the vacant post of Professor has been filled up.

Item No.13: To consider the proposals received from Centres of Advanced Study in (1) Applied Chemistry, Bombay University, (2) Chemistry, Delhi University, (3) Botany, Madras University and (4) Astronomy, Osmania University, for utilisation of grants during the Fifth Plan period.

The Commission accepted the proposals received from the Centres of Advanced Study in (1) Applied Chemistry, Bombay University, (2) Chemistry, Delhi University, (3) Botany, Madras University and (4) Astronomy, Osmania University for utilisation of grants upto Rs.20 lakhs during the V Plan period as indicated in Appendix IV subject to the usual conditions.

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Item No.14: To consider the proposal of the Psychology Department of the Utkal University for participation in the programme of Centre of Advanced Study/Department of Special Assistance.

This was withdrawn.

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Item No.15: To consider the proposal of the Himachal Pradesh University, Simla, for the construction of Library Building during the Fifth Plan period.

The Commission agreed that in the case of Himachal Pradesh University which is the only University in the State of Himachal Pradesh, schemes upto Rs.100 lakhs may be accepted on the basis of the V Plan Visiting Committee recommendations. The University may be requested to indicate its immediate requirements within . . . the balance of the amount available.

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

It was noted that the next three meetings of the Commission will be held in New Delhi on the following dates:

Monday, October 18, 1976
Monday, November 15, 1976
Monday, December 20, 1976

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Item No.17: To receive the minutes of the meeting of the University Grants Commission Standing Committee on New Universities and University Centres held on 2nd September, 1976.

The Commission accepted the recommendations of the Standing Committee on New Universities and University Centres as indicated in Appendix V.

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p.t.o.

Item No.18: To receive the proceedings of the University Grants Commission Committee on providing Ancillary Facilities in Universities held on September 2, 1976.

The Commission accepted the recommendations made by the Committee for providing ancillary facilities in the universities, namely residential accommodation for teachers and visiting faculty complex (Report of the Committee is at Appendix VI) and desired that steps be taken to implement the scheme.

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Item No.19: To consider the proposal of the Nagpur University for the construction of hostel.

The Commission accepted the proposal of the Nagpur University for the construction of a hostel at an estimated cost of Rs.13.82 lakhs and agreed to provide 50% of the approved cost within the V Plan allocation made available to the Nagpur University.

In this connection, the Commission agreed in principle that wherever Visiting Committees had recommended grants for a hostel to be given in parts in different priorities, it would be appropriate to bring them together in first priority to ensure completion of hostel buildings.

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Item No.20: To consider the question of participation in Seminars, Symposia by Teachers fellows selected under Faculty Improvement Programme and sanction of leave to them.

The Commission was of the view that the leave rules as applicable to UGC junior/senior research fellows may be made applicable to the teacher fellows also under the Faculty Improvement Programme.

Rules for participation in Seminars applicable to regular research students may be applied to teacher fellows as well.

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Item No.21: To consider the recommendation of the Committee for rationalising the University Grants Commission scheme of Research Associateships and other research assignments in universities.

The Commission considered the recommendations of the Committee appointed for rationalizing the scheme relating to the Research Associateships and other similar assignments in the Central Universities and agreed as follows:

1. The following categories of posts of Research workers may exist in the Central Universities:

- (i) Research Fellows (Junior/Senior)
- (ii) Research Associates.

The posts of Research Assistants, wherever they exist in the Central Universities, may be phased out. These posts, as and when they fall vacant, may be converted into Research Fellows or Research Associates with the prior approval of the Commission.

2. As regards the remuneration for the post of Research Associates instituted in the universities and those awarded by the Commission, the matter may be further examined in the light of the discussions held at the meeting of the Commission and brought up before it again.

3. It was agreed that the supporting senior technical positions that may be created in the Central Universities for looking after the sophisticated instrumentation facilities may be in one of the following scales of pay depending upon the requirements and the nature of work:

Category A	:	Rs.700-1300
Category B	:	Rs.1100-1600
Category C	:	Rs.1500-2000

It was noted that the universities would be requested to prescribe and intimate to the Commission the educational qualifications and technical experience required for each of the category of these posts.

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Item No.22: To consider a reference received from the Ministry of Education & Social Welfare regarding institution of Chairs in Eastern Region on the Birth Centenary of Sarat Chandra Chatterjee.

The Commission felt that if any University in the Eastern Region desired to name one of the existing Chairs after Sarat Chandra Chatterjee, the Commission would have no objection to it.

(R.K. Chhabra)
Secretary

(Satish Chandra)
Chairman

Appendix IV to Item No.13

I. Centre of Advanced Study in Applied Chemistry, Department of
Chemical Technology, Bombay University, Bombay.

Non -Recurring.

Equipment (including basic grant of Rs.2,00,000/-)	Rs. 12,20,000
Books & Journals(Including Basic grant of Rs. 1,00,000/-).	Rs. 1,00,000
	<hr/> Rs. 13,20,000

Recurring :-(In addition to existing allocations) upto 31.3.1981.

1. Academic Staff Additional one post of a Professor.	Grant to cover actual expenses on salary plus admissible allowances.
2. Two Research Associates (Rs.700-1300)	Actual as per expendi- ture on posts filled.
3. Admn.& Technical Staff	Rs. 30,000 p.a.
4. Travel	Rs. 2,000 p.a.
5. Working expenses	Rs. 36,000 p.a.
6. Seminars	Rs. 1,400 p.a.

2. Centre of Advanced Study in Chemistry, Delhi University

Non-Recurring:

Building	Rs. 1,00,000
Equipment (Including basic grant of Rs. 2,00,000/-)	Rs. 10,00,000
Books & Journals (Including basic grant of Rs. 1,00,000/-)	Rs. 3,00,000
	<hr/> Rs. 14,00,000

Recurring :- (In addition to existing allocations) upto end of V Plan period
i.e. 31.3.1979.

1. Academic Staff (2 Professors& 2 Readers)	Grant to cover actual expenses on salary plus admissible allowances.
2. Admn. & Technical Staff.	Rs. 40,000 p.a.
3. Books & Journals	Rs. 15,000 p.a.
4. Visiting Fellows.	Rs. 15,000 p.a.
5. Publication & Travels	Rs. 10,000 p.a.
6. Chemicals & Glassware	Rs. 50,000 p.a.

3. Centre of Advanced Study in Botany, University of Madras.

Non-Recurring

1.	Equipment (Including basic grant)	Rs.	6,00,000
2.	Books & Journals (Including basic grant)	Rs.	2,00,000
3.	Furniture & Fittings for Laboratory & Library expansion	Rs.	50,000
4.	Growth Room Chamber improvements	Rs.	25,000
5.	Additional funds for purchase of jeep (approved under a Research Project)	Rs.	50,000
		Rs.	<u>9,25,000</u>

Recurring: (In addition to existing allocations) upto 31.3.1981

1.	Teaching Staff (2 Professors)	Grant to cover actual expenses on salary plus admissible allowances.
2.	Technical & Admn. Staff.	Rs. 78,000 p.a.
3.	Books & Journals	Rs. 30,000 p.a.
4.	Contingency	Rs. 20,000 p.a.
5.	Visiting Fellows	Rs. 5,000 p.a.
6.	Travels	Rs. 10,000 p.a.
7.	Seminars	Rs. 5,000 p.a.

4. Centre of Advanced Study in Astronomy, Osmania University, Hyderabad.

Non-recurring:

Equipment (Including basic grant)	Rs.	7,00,000
Building & Furniture	Rs.	4,00,000
Books & Journals (Including basic grant)	Rs.	1,00,000
	Rs.	<u>12,00,000</u>

Recurring: (In addition to existing allocations) upto 31.3.1981.

1.	Scientific Technical Staff (10 Positions).	Actual as per expenditure on posts filled.
2.	Visiting Fellows.	Rs. 10,000 p.a.
3.	Seminar & Travel	Rs. 25,000 p.a.
4.	Publications	Rs. 5,000 p.a.
5.	Books & Journals	Rs. 20,000 p.a.
6.	Contingency (Including Rangapur Observatory Needs)	Rs. 50,000 p.a.
7.	Computer Charges (For buying computer time from outside computers)	Rs. 10,000 p.a.
8.	Other Expenditure	Rs. 10,000 p.a.

Appendix V to Item No. 17

Item No.1 : To consider further a proposal received from the Government of Karnataka for establishment of a Second University of Agricultural Sciences at Dharwar.

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There is no prima facia case for another Agricultural University in Karnataka at this stage, in view of the advice given by the Indian Council of Agricultural Research, New-Delhi.

Item No.2 : To consider a proposal from Government of Maharashtra for the establishment of two universities in Maharashtra - one in Northern Maharashtra and the other in Eastern Vidarbha.

It was emphasised that the establishment of new universities should by and large be on the basis of the established requirements of Postgraduate Education and Research and the requirements of the first degree stage and the increase of enrolment should be delinked and dealt with by recourse to other methods, such as bringing existing facilities to an optimum and viable level of enrolment by Correspondance Courses and non-formal education. Accordingly the proposal of the Maharashtra Government, for the establishment of two new universities in Maharashtra- one in northern Maharashtra and the other in eastern Vidarbha were not recommended.

Item No. 3 : To consider further a proposal to declare Dayalbagh Educational Institute, Dayalbagh as a deemed to be University under Section 3 of the UGC Act.

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It was desired that the proposal to declare Dayalbagh Educational Institute, Dayalbagh, Agra as a deemed to be University under Section 3 of the UGC Act. 1956 may be further examined by a Committee to find ways and means in its set up in relation to Agra University whereby the innovative educational programmes proposed by the Institute could be implemented and strengthened.

Item No. 4 : To consider the proposal from the Government of Haryana to declare Rohtak University fit to receive Central Assistance in terms of Section 12-A of the UGC Act.

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It was decided that the proposal may be referred to a Committee.

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Item No. 5 : To consider further the question of declaring Jawaharlal Nehru Technological University Hyderabad fit to receive assistance from Central Sources in terms of the rules framed under Section 12-A of the UGC Act.

The rules referred to by the Jawaharlal Nehru Technological University are applicable to universities established after the commencement of the U.G.C. (Amendment) Act 1972 (33 of 1972) other than Agricultural universities or universities established against the advice of the Commission for imparting exclusively technological or Medical education and exclusively Technological/Medical Universities, and that no rules have yet been framed under 12-A in respect of such universities established against the advice of the Commission for imparting, exclusively technological or medical education. As the rules stand at present, it was not possible to consider the proposal. It was further desired that the proposal could be considered only after relevant rules for universities imparting exclusively technological or medical education have been framed by the Government of India, Ministry of Education and Social Welfare under Section 12-A of the U.G.C. Act.

Section

Item No. 6: To consider the proposal from Government of West Bengal for the establishment of a University at Midnapur.

The proposal of the Government of West Bengal for the establishment of a University at Midnapur could not be recommended at this stage. It was further desired that the State Government and the Calcutta University may be advised to consider the possibility of establishing an autonomous University Centre for Postgraduate Studies under the Calcutta University giving the Post Graduate Centre necessary autonomy - both academic and administrative so that a nucleus for relevant Post-Graduate studies could be started in the Midnapur region

UNIVERSITY GRANTS COMMISSION

Report of the Committee on providing Ancillary
Facilities in Universities.

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A meeting of the committee appointed to advise the UGC on selecting places for providing ancillary facilities in the universities was held at 4.30 p.m. on September 2, 1976 in the UGC Office, New Delhi. The following were present:-

1. Professor Satish Chandra
Chairman, UGC.
2. Professor B.R. Rao
Vice-Chairman, UGC.
3. Professor Maqbool Ahmed
Member-UGC
Aligarh Muslim University.
4. Professor R.P. Bambah
Member-UGC
Panjab University.
5. Dr.(Miss) A.J. Dastur
Member-UGC.
Bombay University.
6. Shri R.K. Chhabra
Secretary, U.G.C.
7. Dr. D. Shankar Narayan
Additional Secretary, UGC.
8. Shri Y.D. Sharma
Deputy Secretary, U.G.C.

Professor R.S. Sharma, Department of History, Delhi University could not attend the meeting.

2. Professor Satish Chandra apprised the committee that on the basis of the Fifth Plan Visiting Committees which assessed the development proposals of the universities, the Commission would have assisted the universities to create additionally about 1800 senior teaching positions of professors and readers and 900 posts of lecturers in the universities

contd...

and university centres for postgraduate studies during the Vth plan period. The filling up of these additional position by adequately qualified and experienced academics, on an all-India basis, depends largely on availability of reasonable accommodation facilities in these universities. In addition the Commission has undertaken the implementation of major programmes for faculty improvement and academic mobility, including the following:-

1. Visiting Fellowships/appointments
2. National Fellowships/Lecturerships
3. National Associateships
4. Research Associateships
5. Teacher Fellowships
6. Faculty Improvement Programmes other than Teacher Fellowships
7. COSIP/COHSIP activities
8. Summer Institutes, refresher courses, seminars, conferences etc.
9. . . Unesco sponsored long term/short term courses of training for participants from developing countries.
10. Visitors under Cultural Exchange Programmes, YSES, UNDP, IBUC and other collaboration programme.
11. Research fellowships in CAS/DSA etc.

All these programmes encourage academic mobility and require academics to stay and work for specified periods at the universities etc. The existing facilities of teachers hostels, Staff quarters, guest houses and students hostels are inadequate to provide reasonable accommodation etc. to the visiting scholars for building up a corporate academic life in the country. It is, therefore, necessary to identify a few locations and create in such places appropriate residential facilities and to augment the existing ones.

On the basis of the discussions held, the committee made the following suggestions and recommendations:-

I. Residential Accommodations.

(a) The Commission may provide financial assistance on usual sharing basis for the construction of additional residential accommodation for about half the number of additional posts approved during the fifth plan period. For providing residential accommodation for about 900 senior academics (Type-I) and 450 lecturers (Type-II) on 50% basis, funds to the tune of about Rs. Six crores may have to be provided.

contd...

(b) The universities be advised that a separate fund may be created from the rental income of houses constructed with assistance from UGC, after meeting the expenditure on maintenance, which may be utilised for further development of Housing facilities.

II. Visiting Faculty Complex.

(i) For faculty improvement programmes, visiting faculty suites homes may be constructed at the universities. These suites may have two or three types of accommodation in them: (i) 2 rooms suites with bath and kitchen, and (ii) i.e. one room guest suites for occupancy by one person with half the number of rooms having attached bath and the other half two of rooms be provided with a wash basin, but the other facilities being common and situated at convenient places. Both the types of accommodation may be constructed as a composite common unit, and with adequate facilities for conferences, seminars etc. Such Faculty suites should be exclusively meant for visiting faculty and other participants under faculty improvement programmes etc. and no portion of it may be allotted for permanent occupancy or for other non-academic purposes. Each University may provide between 32 to 40 units. The details about the accommodation, academic facilities, unit cost of construction etc. may be worked with the help of an expert committee. An allocation of Rs. about Four crores may be required for the construction of such suites at various universities. The assistance for the purpose may be provided on cent per cent basis, but the universities should be responsible for their proper maintenance/repairs etc.

(ii) Keeping in view the regional distribution and the stage of development, as obtaining in the various universities, the committee recommended for providing assistance in two categories. In category I, assistance may be provided for creating new/cum Seminar complex and in category-II, assistance may be used for augmenting the existing facilities. The facilities so created should be available for use by the adjoining universities in the region/state for similar academic meetings.

contd.....

kitchen & Dining
on,

Faculty suites

The following recommendation was made:-

S.No.	State/Union Territory	Name of the University to which assistance may be provided	
		Category - I	Category - II
1.	Andhra	1. Andhra (Waltair)	1. Osmania (Hyderabad)
2.	Assam	1A. CIEFL (Hyderabad)	-
3.	Bihar	2. Gauhati	-
		3. Patna	-
		4. Ranchi	-
4.	Chandigarh	-	2. Panjab (Chandigarh)
5.	Delhi	5. Delhi	-
		6. Jawaharlal Nehru (New Delhi)	-
6.	Gujarat	7. Baroda	3. Gujarat (Ahmedabad)
7.	Himachal Pradesh	-	4. Himachal Pradesh (Simla)
8.	Jammu & Kashmir	8. Kashmir (Srinagar)	-
9.	Karnataka	9. Bangalore	5. Mysore
10.	Kerala	10. Cochin	6. Kerala (Trivandrum)
11.	Maharashtra	11. Bombay	7. Poona
12.	Madhya Pradesh	-	8. Jabalpur
			9. Vikram (Ujjain)/Indore
13.	Meghalaya	12. Shillong	-
14.	Orissa	13. Utkal (Bhubaneswar)	-
15.	Rajasthan	14. Udaipur (ICAR may also support)	10. Rajasthan Jaipur
16.	Tamil Nadu	15. Madras	11. Madurai
17.	Uttar Pradesh	16. Aligarh	12. Banaras
		17. Lucknow	
		18. Allahabad.	
18.	West Bengal	19. Calcutta	13. Visva Bharati (Shantiniketan)
		20. Jadavpur	

(iii) The basis of charging rent for these accommodation for different purposes may be determined in consultation with University Grants Commission.

(iv) While the UGC may provide cent per cent assistance for creating these facilities, the responsibility of maintenance of these may be that of the universities where these facilities have been created.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

Date : 22nd September, 1976
Time : 10.00 A.M.
Place : U.G.C. Office, New Delhi.

A G E N D A

- Item No. 1: To receive the minutes of the meeting of the Commission held on 23rd August, 1976.
- Item No. 2: (a) To approve the action taken on certain matters
(b) To receive the items of information
(c) To receive the statement of proposals which could not be accepted by the Commission.
- Item No. 3: To approve the statement of grants released after the last meeting of the Commission held on 23rd August, 1976.
- Item No. 4: To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 31st July, 1976.
- Item No. 5: To receive the Annual Accounts of the University Grants Commission for the year 1973-74 as presented to the Parliament under Section 19 (4) of the University Grants Commission Act, 1956. p.1-38.
- Item No. 6: To consider further the question of eligibility of Law Colleges, Colleges of Physical Education, Home Science Colleges, School of Social Work, Colleges of Fine Arts and Music etc. for assistance under 1.5 lakh scheme.p.39-45.
- Item No. 7: To consider the question of relaxing the minimum eligibility condition for the award of Junior Fellowships in favour of the candidates belonging to Scheduled Castes/Scheduled Tribes.p.46-47.
- Item No. 8: To consider the references received from the Osmania and Andhra Universities regarding reservation for Scheduled Castes and Scheduled Tribes for teaching posts.p.48-68.
- Item No. 9: To consider a proposal of Aligarh Muslim University for imparting special instruction to the candidates belonging to Scheduled Caste/Tribes/Backward Classes, etc. to be admitted to the B.Sc. Engineering courses in the Z.H. College of Engineering & Technology. p.69-75.

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- Item No.10 : To consider the proposal of Sardar Patel University for the conversion of one of the three posts of Readers approved by the Commission for the Department of Chemistry during the Fifth Plan period into that of a Professor.p.76-82.
- Item No.11 : To consider the proposal of the Jabalpur University for the construction of Students' Home.p.83-84.
- Item No.12 : To consider the proposal of Bangalore University for the conversion of a post of Reader in the Department of Political Science into two lecturerships and change of specialisation of one of the three posts of Readers approved in the Department of Education. p.85-88.
- Item No.13 : To consider the proposals received from Centres of Advanced Study in (1) Applied Chemistry, Bombay University, (2) Chemistry, Delhi University (3) Botany, Madras University and (4) Astronomy, Osmania University, for utilisation of grants during the Fifth Plan period.p.89-190
- Item No.14 : To consider the proposal of the Psychology Department of the Utkal University for participation in the programme of Centre of Advanced Study/Department of Special Assistance. (Withdrawn)
- Item No.15 : To consider the proposal of the Himachal Pradesh University Simla, for the construction of Library Building, during the Fifth Plan period. p-191.
- 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 :

Date : 22nd September, 1976
Time : 10.00 A.M.
Place : U.G.C. Office, New Delhi,

A G E N D A

- Item No. 17 : To receive the minutes of the meeting of the University Grants Commission Standing Committee on New Universities and University Centres held on 2nd September, 1976 p.192-197.
- Item No. 18 : To receive the proceedings of the University Grants Commission Committee on providing Ancillary Facilities in Universities held on September 2, 1976. p.198-205
- Item No. 19 : To consider the proposal of the Nagpur University for the construction of hostel. p.206-207.
- Item No. 20 : To consider the question of participation in Seminars, Symposia by Teachers fellows selected under Faculty Improvement Programme and sanction of leave to them. p.208-209
- Item No. 21 : To consider the recommendation of the Committee for rationalizing the University Grants Commission scheme of Research Associateships and other research assignments in universities. p.210-214
- Item No. 22 : To consider a reference received from the Ministry of Education and Social Welfare regarding institution of Chairs in Eastern Region on the Birth Centenary of Sarat Chandra Chatterjee. p-215.

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UNIVERSITY GRANTS COMMISSION

Minutes of the 182nd meeting of the University Grants Commission held on August 23, 1976.

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The following were present:

Professor Satish Chandra	-	Chairman
Professor B. Ramachandra Rao	-	Vice-Chairman
Shri K.N. Channa	-	Member
Dr. Ajit Mozoomdar	-	Member
Professor R.P. Bambah	-	Member
Professor S.S. Saluja	-	Member
Professor (Miss) A.J. Dastur	-	Member
Professor Maqbool Ahmed	-	Member
Dr. Chandran D.S. Devanesen	-	Member
Shri R.K. Chhabra	-	Secretary

Professor S. Gopal, Professor J.B. Chitambar and Professor B.M. Udgaonkar regretted their inability to attend the meeting.

SECRETARIAT

Additional Secretary

Dr. D. Shankar Narayan

Joint Secretaries

Dr. J.N. Kaul
Dr. S.K. Dasgupta

Deputy Secretaries

Shri S. Viswanath
Shri I.C. Menon
Shri I.K. Sangma
Dr. S.C. Goel
Shri S.P. Gupta
Dr. M.L. Mehta
Dr. T.N. Hajela
Shri Y.D. Sharma

Director(SRC)

Dr. Jagdish Shankar

Finance Officer

Shri R.P. Bhattacharjee

:2:

Item No.1: To receive the minutes of the meeting of the Commission held on 19th July 1976.

...

The minutes of the 181st meeting of the Commission held on July 19, 1976 were confirmed subject to the following modifications:

Arising out of the minutes, the following may be added:

2(a)(5). "The Commission desired that the colleges may be encouraged to utilize the component relating to faculty improvement programmes provided under the five-lakh scheme."

Item No.29: The last para may read as follows:

Specific items for which assistance may be provided to the Department may be determined after the University accepts the suggestions made above. The University may also be advised to organise research seminars in the Department. The question of participation of the Department in the Special Assistance Programme will be considered later.

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

(b) To receive the items of information.

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

(b) This was noted.

Item No.3: To approve the statement of grants released after the last meeting of the Commission held on 19th July 1976.

...

The Commission approved the grants released after the last meeting of the Commission held on July 19, 1976 (Appendix II*).

Item No.4: To receive the statement of expenditure incurred by the University Grants Commission during 1976-77 upto 30th June 1976.

...

This was noted.

* Not enclosed.

Item No. 5: To receive a statement indicating the progress of issue of utilization certificates during period ending 31st July 1976.

This was noted.

...

Item No. 6: To consider the recommendations of the Task Force on University continuing education and suggestions regarding the introduction of the two year M.A. course in Androgogy.

The Commission noted the recommendations of the Task Force on Continuing Education and the suggestions made regarding the introduction of the two-year M.A. course in Androgogy and desired that the report may be circulated to the universities for their comments and suggestions. The universities may be requested to indicate their views in the matter latest by the end of November, 1976.

....

Item No. 7: To consider the report of the Committee appointed by the Commission to examine the proposal of the Aligarh Muslim University for the establishment of a Centre of Continuing Education.

The Commission accepted the report of the Committee appointed by it to examine the proposal of the Aligarh Muslim University for the establishment of a Centre of Continuing Education and agreed to the following provision for the purpose during the V Plan period on cent per cent basis:

A. Recurring

Staff

- i) Reader * - (Rs.1200-50-1900)
- ii) Programme Assistant - (Rs.425-700)
- iii) Implementation of programmes - Rs.60,160 p.a. for 3 years.

B. Non-Recurring

For items such as amplifier, microphone, speakers, tape recorders, record players with records, typewriters, duplicating machine, telephones, book shelves, office chairs, office tables, easy chairs, durries, gas etc. Rs.30,000

* He would act as Director of the Centre while being associated with teaching in his field of speciality in the department concerned.

The Commission desired that the question of conveyance allowance or provision of a jeep for the Centre may be further examined.

...

Item No. 8: To consider the report of the Committee set up by the University Grants Commission to examine the proposal for the establishment of Faculty of Spiritual Sciences in the Indian Universities.

The Commission accepted the recommendations of the Committee and desired that the report of the Committee may be circulated to the universities.

....

Item No. 9: To consider the recommendations of the expert committees appointed by the Commission to examine the research projects in the following university departments :

- i) Departments of Geology & Geophysics, Roorkee University.
- ii) Department of Geology, Panjab University.
- iii) Departments of Geology & Geophysics, Osmania University.
- iv) Department of Geology, Andhra University.
- v) Departments of Applied Geology and Applied Geophysics, Indian School of Mines, Dhanbad.

The Commission accepted the recommendations of the expert committees which examined the major research projects to be taken up by the following Departments over the next three years :

- i) Department of Geology & Geophysics, Roorkee University.
- ii) Department of Geology, Panjab University.
- iii) Department of Geology, Osmania University.
- iv) Centre for Exploration Geophysics, Osmania University.
- v) Department of Geology, Andhra University; and
- vi) Departments of Applied Geology & Applied Geophysics, Indian School of Mines, Dhanbad.

In the case of the proposals from (i) the Department of Geology & Geophysics, Roorkee University and (ii) Centre for Exploration Geophysics, Osmania University, the Commission desired that the Departments may be requested to indicate the research programmes and facilities to be created within a sum of Rs.10 lakhs for a 3-year period. The Department of Geology and Geophysics, Roorkee University may be requested also to indicate the principal investigators/co-investigators in respect of each of the major programmes recommended by the Committee. The amount provided for computer time is generally to be used for buying time from outside computers.

The Indian School of Mines, Dhanbad, may be requested to coordinate its programmes in the field of applied geology and geophysics with the work that may be taken up by the Geological Survey of India in this area. Similarly, the Department of Geology and Geophysics, Roorkee University, may be requested to coordinate its programmes and facilities already available with the School of Earthquake Engineering in the University.

....

Item No. 10: To consider the recommendations of the expert committee appointed by the Commission to examine a number of major research projects from the (1) Department of Physics and (2) Molecular Biophysics Unit of Indian Institute of Science, Bangalore.

The Commission accepted the recommendations of the expert committee appointed to examine the major research programme to be taken up by the Molecular Biophysics Unit of Indian Institute of Science, Bangalore and agreed that this unit may be invited to participate in the programme of special assistance to selected departments (D.S.A.). The Commission further agreed to make available to this Unit a non-recurring grant of Rs.13.35 lakhs and a recurring grant of Rs.1.56 lakhs per annum for a period of five years.

The Commission also accepted the recommendations of the expert committee relating to the major research programme to be taken up by the Department of Physics, Indian Institute of Science, Bangalore, and desired that the Department may be requested to indicate the programmes and the facilities which it would like to develop within a sum of Rs.10 lakhs over the next three year period.

...

Item No.11: To consider a proposal from the Ministry of Education and Social Welfare regarding establishment of a Centre for Educational Studies by the NCERT, New Delhi.

The Commission desired that the proposal from the Ministry of Education & Social Welfare for setting up a Centre of Advanced Studies & Research at NCERT, New Delhi may be referred to a Committee for advice.

...

Item No.12: To consider a proposal from the Indian National Science Academy for providing financial assistance to teachers for attending various International Conferences/Congresses/Seminars etc.

The Commission was generally of the view that in order to promote a better interaction between the University Faculties, members and persons working abroad in specialised fields, the Commission may sponsor delegations to selected International Conferences/Seminars/Workshops and meet the expenditure on cent per cent basis outside the unassigned grant available to the universities concerned. The Commission desired that the Panels in science subjects may be requested to identify the conferences to which such delegations may be sent by the Commission. In this connection, it was noted that the Subject Panels in humanities and social sciences have already identified the conferences to which delegations may be sent.

...

Item No.13: To consider the recommendations made at the Conference of Vice-Chancellors of Universities in Uttar Pradesh held on 21st February 1976 at Lucknow.

This was noted.

...

Item No.14: To consider the points raised at the Validictor meeting of the National Committee on Internatic Women's Year held on 17-2-1975 relating to inclusion of compulsory study of National Freedom Struggle.

The Commission was of the view that such subjects viz. 'the study of the National Freedom Struggle' should generally be incorporated in the syllabi at the school stage and the universities could undertake advanced studies and research in the relevant areas in subjects concerned.

...

Item No.15: To consider the proposal of the Kumaun University, Nainital, towards the establishment of Centre of Continuing Education under the non-formal education programme.

The Commission considered the proposal of the Kumaun University, Nainital, for the establishment of study cum contact centre for private candidates under the non-formal education programme and agreed to a provision of Rs.20,000 for each of the four centres for purchase of books and Rs.10,000 for each of the four workshops during the V Plan period. The assistance of the UGC will be on 75:25 sharing basis and on condition that no additional fees will be charged from private candidates for this purpose. Similar proposals from other universities may also be considered under the non-formal education programme.

The Commission desired that the question of use of facilities in the college libraries by the community at large may be referred to the Standing Committee on Colleges for advice.

...

Item No. 16: To consider the proposal of the Osmania University for starting a centre for correspondence courses at the university.

The Commission accepted the proposal of the Osmania University for instituting correspondence courses for B.A./E.Com. on condition that the University organises the programme in accordance with the UGC guidelines and obtains the concurrence of the State Government for providing assistance over and above the assistance of the UGC for specified items and for maintaining the facilities at the end of the period of UGC assistance. The three universities in the State of Andhra Pradesh, viz., Andhra, Sri Venkateswara

and Osmania may be advised to set up a Coordination Committee in order to avoid duplication of efforts, and devise ways and means for use of common instructional materials and contact classes.

...

Item No. 17: To consider the proposal of the South Gujarat University regarding Fifth Plan assistance for the Department of Education.

The Commission agreed that the South Gujarat University may be permitted to implement the programme in the Department of Education as already approved in the IV Plan and agreed to provide assistance for the following on the usual sharing basis upto 31-3-1981.

Professor	-	1	
Reader	-	1	
Lecturers	-	2	
Books & Journals	-	Rs.1,00,000	
Equipment & Audio-visual aids	-	Rs.1,00,000	
Furniture	-	Rs. 50,000	
Building	-	Rs.2,50,000	

....

Item No. 18: To consider the proposal of the Sardar Patel University for the conversion of certain teaching posts approved in Vth Plan.

The Commission agreed that the Sardar Patel University may provide for the post of one Lecturer in Hindi and Gujarati each in lieu of one post of Reader in Hindi already approved during V Plan. The assistance will be on usual sharing basis. In this connection, the Commission desired that the University be advised to waste out the cadre of Assistant Lecturer as soon as possible.

...

Item No. 19: To consider the recommendations of the expert appointed to examine the proposal of Mysore University for obtaining computer facilities.

The Commission accepted the recommendations and agreed to provide to the Mysore University assistance for setting up a Computer Centre at an estimated cost of Rs.38 lakhs for purchase of TDC 316 level system and a sum of Rs.3 lakhs for installation. Assistance for recurring purposes would be on the basis to be determined by the Computer Committee.

In this connection, the Commission noted that the amount made available for installation of computers including air-conditioning may not be adequate and the actual amount payable could be determined on the basis of actual expenditure incurred for purposes of air-conditioning, preparation of site, and any voltage stabilizer that may become necessary.

. . .

Item No. 20: To consider the proposals received from the Centre of Advanced Study in Mathematics, Panjab University for utilization of grants during the Fifth Plan period.

The Commission accepted the proposals received from the Centre of Advanced Study in Mathematics, Panjab University, and agreed to provide a non-recurring grant of Rs.11.05 lakhs for the following purposes and a recurring assistance to meet the expenditure on the following items upto 31st March, 1981 :

Non-Recurring

1. Building	Rs. 5,00,000
2. Xerox copying machine	Rs. 40,000
3. Air-conditioning of library rooms.	Rs. 40,000
4. Books & Journals (including basic grant)	Rs. 5,00,000
5. Basic grant approved for equipment.	Rs. 25,000
	Rs. 11,05,000

Recurring

1. Staff (8 additional posts of Professors or Readers)	
2. Visiting Fellows	Rs. 30,000 p.a.
3. Travel	Rs. 5,000 p.a.
4. Contingencies	Rs. 10,000 p.a.
5. Computer time	Rs. 3,500 p.a.

. . .

Item No. 21: To consider the proposal received from the Saugar University for the implementation of University Leadership Project in Chemistry under College Science Improvement Programme.

The Commission accepted the proposal of the Saugar University, Department of Chemistry, for implementation of the University Leadership Project under COSIP at a total expenditure of Rs.6 lakhs for the next three years as detailed below :

A. University Department requirements

1. Academic and administrative Personnel	Rs. 1,00,000
2. Equipment and other items	Rs. 40,000

B. College Requirements

1. Conferences, short-term refresher courses, teachers training programme.	Rs. 70,000
2. Laboratory equipment, chemicals, glasswares and other apparatus.	Rs. 2,50,000
3. Preparation of course material, books, monographs etc.	Rs. 90,000
4. Teaching and audio-visual aids.	Rs. 50,000
Total:	Rs. 6,00,000

. . . .

Item No. 22: To consider a proposal from the Lucknow University for utilization of certain percentage of contingent grant allocated to various schemes for appointment of administrative staff in the university.

The Commission accepted the principle that the universities be assisted for increase in the administrative support to enable them to implement the schemes sanctioned by the Commission and desired that the details regarding such assistance may be worked out with the help of a committee.

...

Item No. 23: To further consider the proposal of the Utkal University for change in the specialisations for the posts of Readers approved for the 5th Plan period.

The Commission requested the Chairman to discuss the suggestions with the Vice-Chancellor and take decision accordingly.

...

Item No. 24: To consider a proposal of the Sambalpur University for the creation of a post of Professor for each of the Departments of Home Science and Library Science for the 5th Plan period.

The Commission accepted the proposal of the Sambalpur University for the creation of a post of Professor in the Department of Home Science. The Commission however could not accept the proposal of the university for instituting Professorship in Library Science.

...

Item No. 25: To consider the proposal of the Madurai University for financial assistance towards the creation of interdisciplinary group between the Physics Departments, American College, Madurai and Molecular Biology Group, Department of Biological Sciences, Madurai University.

...

The Commission accepted the proposal of the Madurai University for financial assistance towards the creation of an inter-disciplinary group between the Department of Physics, American College, Madurai and the Molecular Biology Group, Department of Biological Sciences, Madurai University and agreed to the following provisions for a period of two years:

Non-Recurring

1. Purchase of servicing equipment for use in Instrumentation unit. Rs. 25,000
2. Purchase of components, spare-parts for instrument service and building (includes expenses for laboratory work). Rs. 10,000

Recurring

1. Two Assistant Professors/Lecturers (consolidated salary Rs.665 p.m.) Rs. 16,000 p.a.
2. One Laboratory Technician electronics/electrical (consolidated salary Rs.300 p.m.) Rs. 3,600 p.a.
3. Contingent expenses, including travel to and from the college to university and clerical expenses. Rs. 5,000 p.a.

The assistance for appointment of Lecturers/Assistant Professors would however be on the usual sharing basis i.e. 75:25.

Item No.26: To consider the proposal of the Panjab University towards organisation of Summer Institutes for M.Phil. in Statistics.

...
The Commission desired that this may be further examined with the help of a Committee with particular reference to the need for such courses besides the normal M.Phil. course and its academic viability.

Item No.27: To consider the recommendations of the working group for Mother's Centenary Celebrations forwarded by the Ministry of Education and Social Welfare, Department of Education, New Delhi.

...
The Commission accepted in principle the recommendations of the Working Group for Mother's Centenary celebrations and agreed to provide assistance for organisation of seminars, symposia and conferences and desired that the proposals may be invited from the universities.

:11:

Item No.28: To consider a reference received from the Ministry of Education and Social Welfare regarding the question of sending delegates to the 7th International Economic History Congress to be held at the University of Edinburgh, Scotland in August 1978.

...

The Commission agreed to send a delegation of 3-4 persons to participate in the 7th International Economic History Congress to be held at Edinburgh in August 1978 and meet the expenditure for the delegates, and desired that the details of the delegation and other related matters may be worked out by the UGC Panel in History.

Item No.29: To consider the proposal of the Roorkee University towards provision of additional physical facilities for consolidation and development of the Water Resources Development Training Centre.

...

The Commission agreed that in view of the fact that it was providing maintenance grant to the Water Resources Development Training Centre, the assistance for capital expenditure may also be provided on cent per cent basis. The Commission further desired that the requirements of the Centre for residences, etc. may be examined and brought up before the Commission.

Item No.30: To consider the proposal of the Bombay University regarding the post of Reader in Marathi under the Fifth Plan.

...

The Commission accepted the proposal of the Bombay University and agreed to treat the post of Reader in Marathi during V Plan as a general post instead of in Marathi Linguistics as earlier suggested.

Item No.31: 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 Delhi on September 22, 1976.

(R.K. Chhabra)
Secretary

(Satish Chandra)
Chairman

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated : 22nd September, 1976.

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

-
- (1) : Granting of additional increments to Dr. P.B. Rao on appointment as Professor, Department of Physics, Kerala University.

.....

On the basis of the recommendations of the Fifth Plan Visiting Committee appointed to assess the development schemes of the Kerala University, the University Grants Commission had inter alia approved a post of Professor in the Department of Physics. The University of Kerala, has appointed Dr. P.B. Rao as Professor in the department of Physics on an initial salary of Rs. 1650/- in the scale of Rs. 1200-50-1650/2-1750 with effect from 21.1.1976. In view of his qualifications, experience etc. and on the basis of the recommendations of the Selection Committee, the appointment of Dr. Rao as professor in the department of Physics on an initial salary of Rs. 1650/- in the scale of Rs. 1200-50-1650-50-1750 with effect from 21.1.1976 has been agreed to and the University has been informed accordingly vide this office letter No.F.8-4/76(DIa) dated the 14th July, 1976.

-
- (2) Proposal of Colleges accepted under 5 lakhs Scheme.

The following proposals of colleges have been approved by the Commission for financial assistance under Rs. 5 lakhs scheme during the Fifth Plan period.

of the College	Purpose	Estimated Cost	UGC Share	Date of Approval
<u>University</u>				
Ganj dandwara College, Gajndandwara	Books & Journals	Rs. 35,000/-	Rs. 26,250/-	12.8.76
	Lab. Equip.	Rs. 1,50,000/-	Rs. 1,12,500/-	
		Rs. 1,85,000/-	Rs. 1,38,750/-	
<u>Khand University</u>				
J.S. Hindu College, Amroha.	Books & Journals	Rs. 60,000/-	Rs. 45,000/-	31.7.76
	Lab. Equipment.	Rs. 60,000/-	Rs. 45,000/-	
		Rs. 1,20,000/-	Rs. 90,000/-	

1	2	3	4	5	6
<u>Kampur University</u>					
3.	A.N.D. Mahapalika Mahila Mahavidyalaya, Kampur.	Library Building	Rs.1,40,000/-	Rs. 70,000/-	dated 21.8.76
4.	C.S. Nehru College, Hardoi	Library Building	Rs.5,42,800/-	Rs.1,66,667/-	dated 11.8.76
		Books	Rs.1,06,667/-	Rs. 80,000/-	dated 11.8.76
5.	Janta Mahavidyalaya, Ajitmal, Etawah	Lab. Equipment	Rs. 60,000/-	Rs. 45,000/-	dated Aug ,76
6.	Kulbhaskar Ashram Degree College, Allahabad.	Books & Journals	Rs. 40,000/-	Rs. 30,000/-	dated July,76
<u>Meerut University</u>					
7.	M.M. Degree College, Khekra	Books & Journals	Rs. 80,000/-	Rs. 60,000/-	dated 23.7.76.
8.	K.V. Degree College, Machra.	Books & Journals	Rs. 40,000/-	Rs. 30,000/-	} Dated 24.7.76
		Equipment	Rs. 40,000/-	Rs. 30,000/-	
		Addl. Teaching Accommodation	Rs. 62,356/-	Rs. 31,178/-	
9.	A.K.P. Degree College, Hapur	Books & Journals	Rs. 60,000/-	Rs. 45,000/-	dated 13.8.76
10.	Ismail National Degree College, Meerut	Books & Journals	Rs. 40,000/-	Rs. 30,000/-	dated 28.8.76
11.	J.V. College, Baraut	Books & Journals	Rs.1,00,000/-	Rs. 75,000/-	dated 28.8.76
12.	S.D. College, Muzaffarnagar.	Books & Journals	Rs.1,00,000/-	Rs. 75,000/-	dated 30.8.76
		Equipment	Rs. 60,000/-	Rs. 45,000/-	
<u>Avadh University</u>					
13.	T.M. Degree College, Tanda	Books & Journals	Rs. 24,000/-	Rs. 18,000/-	dated 28.8.76
		Equipment (Geography Deptt.)	Rs. 12,000/-	Rs. 9,000/-	

1	2	3	4	5	6
<u>B.N. CHAKRAVARTY UNIVERSITY</u>					
14.	J.V.M.C.R.R. College, Charkhi Dadri	Books & Journals	Rs. 1,00,000/-	Rs. 75,000/-	27.7.76
15.	Vaish College, Rotak	Additional Teaching accommodation.	Rs. 3,33,405/-	Rs. 1,67,667/-	2.9.76
16.	Vaish College of Education Rohtak.	Books & Journals	Rs. 20,000/-	Rs. 15,000/-	27.8.76
17.	Hindu College of Education Sonapat.	Books and Journals	17,000/-	Rs. 12,750/-	28.8.76
18.	Chhaju Ram College of Education, Hissar.	Books and Journals	Rs. 47,000/-	Rs. 35,250/-	28.8.76
<u>GURU NANAK UNIVERSITY</u>					
19.	D.A.V. College, Jullundur.	Additional Teaching Staff (5 posts)	Rs. 50,000/-	Rs. 50,000/- (R) upto 31.8.81.	30.8.76
20.	R.P.C.S.D.B. College, Simla.	Books and Journals	Rs. 50,000/-	Rs. 37,500/-	27.8.76
		Construction of Workshop, Animal House including shed.	Rs. 12,063/-	Rs. 12,063/-	27.8.76
		Purchase of workshop Equipment	Rs. 10,000/-	Rs. 10,000/-	27.8.76
<u>Burdwan University</u>					
21.	Saldiha College, Saldiha.	Laboratory equipment for Physics & Chemistry	Rs. 1,50,000/-	Rs. 1,12,500/-	18.3.76
22.	Sambhunath College, labpur	Laboratory for 1) Physics & Chemistry 2) Equipment 3) Books	1,55,783/- 45,000/- 20,000/-	Rs. 1,03,855/- Rs. 33,750/- Rs. 15,000/-	5.7.76
23.	Kalna College, Kalna.	1) Construction of Class Rooms 2) Workshop Building 3) Workshop equipment.	2,12,415/- 35,000/- 30,000/-	Rs. 1,41,610/- Rs. 35,000/- Rs. 30,000/-	24.7.76
24.	Vivekananda Mahavidyalaya, Burdwan.	Library and Laboratory building etc.	5,09,072	Rs. 1,67,000/-	12.8.76

1	2	3	4	5	6
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Calcutta University...

25.	Vevekananda Mahavidyalaya, Rahra	1) Equipment 2) Books	1,40,000/- 50,000/-	1,05,000/- 37,500/-	15-3-76
26.	Sundarban Hazi Desarat College, P.C. Pathanakhali	Construction of class rooms and Lecture theatre	2,64,282/-	1,67,000/-	22-6-76

Gauhati University

27.	Gachar College, Silchar	Additional teaching accommodation	3,34,526/-	1,67,000/-	15-3-76
28.	Nalbari College, Nalbari	Construction of Women's Hostel	4,44,887.21	1,67,000/-	25-5-76
29.	Nowgong College, Nowgong	Construction of library building	3,38,170/-	1,67,000/-	24-6-76
30.	Pragjyotish College, Gauhati	Laboratory equipment	1,00,000/-	75,000/-	11-3-76

L.N. Mithila University

31.	K.P. College, Murliganj	Teaching accommodation	2,49,966/-	1,66,644/-	18-6-76
32.	K.S. College, Laharbasarai	1) Teaching Accommodation 2) Equipment	2,50,513/- 45,000/-	1,67,000/- 33,750/-	20-7-76 -do-
33.	M.R. Mahila College, Darbhanga	1) Books 2) Equipment	20,000/- 34,000/-	15,000/- 25,500/-	13-3-76 -do-

North Eastern Hill University

34.	Kohima Science College, Kohima	1) Books & journals 2) Equipment	1,00,000/- 1,60,000/-	75,000/- 1,20,000/-	19-7-76 -do-
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Ranchi University

35.	Jamshedpur Women's College, Jamshedpur	1) Laboratory equipment 2) Books & journals	92,000/- 64,000/-	69,000/- 48,000/-	7-3-76 -do-
36.	Sindoga College, Ranchi	1) Library building 2) Books & journals 3) Equipment	1,83,750/- 80,000/- 30,000/-	1,22,500/- 60,000/- 22,500/-	13-3-76 -do- -do-

Sirbalpur University

37.	Govt. College, Rourkela	1) Library books 2) Equipment	80,000/- 88,000/-	60,000/- 65,000/-	24-7-76 -do-
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1	2	3	4	5	6
38.	Rajendra College, Bolangir	1) Animal House 2) Books & journals 3) Laboratory equipment 4) Workshop equipment	22,946/- 1,00,000/- 1,46,000/- 15,000/-	22,946/- 75,000/- 1,09,500/- 15,000/-	13-8-76 -do- -do- -do-
<u>Utkal University:</u>					
39.	Kendrapara College, Kandrapara	1) Books & journals 2) Equipment (including furniture)	80,000/- 1,20,000/-	60,000/- 90,000/-	5-4-76 -do-
40.	Govt. Evening College, Cuttack	Library books & journals	48,000/-	36,000/-	25-3-76
41.	S.V.M. College, Jagasinghpur	1) Construction of staff quarters 2) Books & journals	66,396/- 60,000/-	33,198/- 45,000/-	24-6-76 -do-
42.	Salipur Collogo, Salipur	1) Equipment 2) Books & journals 3) Workshop equipment	52,000/- 24,000/- 18,000/-	39,000/- 18,000/- 18,000/-	5-7-76 -do- -do-
43.	S.C.S. Collogo, Puri	1) Library books & journals 2) Equipment 3) Workshop equipment	1,00,000/- 1,20,000/- 20,000/-	75,000/- 90,000/- 20,000/-	25-7-76 -do- -do-
44.	Banki Collogo, Banki	1) Library building 2) Books & journals	3,52,898.34 40,000/-	1,67,000/- 30,000/-	11-8-76 -do-
<u>Magadh University</u>					
45.	Sardar Vallabhabhai Patel Collogo, Bhabua	1) Equipment 2) Teaching accommodation	90,000/- 3,02,822/-	67,500/- 1,51,411/-	18-3-76 -do-
46.	Nalanda Collogo, Bihar Sharif	1) Books 2) Equipment	46,000/- 1,50,000/-	34,500/- 1,12,500/-	18-3-76 -do-
47.	A.N. Collogo, Patna	Students Hostel	3,77,240/-	1,67,000/-	11-8-76
48.	S.N. Sinha Collogo, Barsaliganj	Students Hostel	2,39,950/-	1,65,000/-	18-6-76

p.t.o.....

(3) Travel grant to teachers of the colleges approved in July/
August, 1976

S.No.	Name of the teacher and college	Name of International Conference	Amount agreed	Date of approval
1.	Dr. S.V.S. Rana D.A.V. College Muzaffarnagar	5th International Congress of Histochemistry & Cytochemistry at Bucharest, Romania from 29-8-76 to 3-9-76	-	23-8-76
2.	Dr. P.P. Singh MIK (PG) College Balrampur	XVIII International Conference on Coordination Chemistry at Hamburg (W. Germany) 6th to 10th September, 1976	-	23-8-76
3.	Dr. K.P. Dixit G.S.V.M. Medical College, Kanpur	2nd Asian Congress of Paediatrics at Jakarta, Indonesia - 2-6 August, '76	-	4-8-76
4.	Prof. B.B. Chandra M.L.N. Medical College, Allahabad	Sixth Conference of Academy of Ophthalmology at Jakarta 29th August, to 3rd September, 1976	3802/50	23-7-76

-:-

(4) Acceptance of the schemes for fifth plan period
of the Allahabad, Gorakhpur and Lucknow Universities.

-:-

The University Grants Commission at its meeting held on 15-12-1975 (Item No.5) considered the reports of the Visiting Committee appointed by the University Grants Commission to assess the Fifth Plan proposals of Gorakhpur, Lucknow & Allahabad Universities and desired that the reports may be discussed by the Chairman, UGC with the Vice-Chancellors of the Universities and the representative of the State Government before further action is taken on the same. Accordingly, the Chairman, UGC discussed the matter with the Chancellor, Shri Chenna Reddy, on 3-1-1976 (Minutes are at Annexure 1).

The approval of the Commission with regard to development schemes as recommended by the Visiting Committee has been conveyed to the Universities. The payment of grant would however, be made only on receipt of necessary assurances from the State Government/Universities regarding matching share, continuation of posts after UGC assistance ceases and other related matters. The financial allocations of the schemes approved

are indicated below :

A. Gorakhpur University (Ceiling of assistance Rs. 1.00 crore)

	Amount in lakhs of rupees
1. Spill Over	17.37
2. Basic Equipment Grant	5.00
3. Basic Book Grant	3.00

New Allocation

4. Books & Journals	10.70
5. Equipment	7.94
6. Building	5.00
7. Misc.	1.25
8. Additional Staff (estimated Exp.)	16.13
	<u>66.94</u>

Details of new allocations are given in Annexure II to IV.

B. Allahabad University (Ceiling of assistance Rs. 2.00 crores)

1. Spill Over	27.98
2. Basic Equipment Grant	7.50
3. Basic Book Grant	5.00
4. Building projects approved before Committees visit	21.47

New Allocation

5. Books & Journals	16.25
6. Equipment	26.65
7. Misc.	1.50
8. Kitchen/Dinning Room G.N. Jha Hostel	0.30
9. Additional Staff (estimated Exp.)	25.35
	<u>132.00</u>

Details of new allocation are given in Annexure V to IX.

C. Lucknow University (Ceiling of assistance Rs. 135.30 lakhs)

1. Spill over	27.80
2. Basic equipment grant	7.50
3. Basic Book Grant	5.00
4. Schemes already approved	0.69

New Allocation

5. Books & Journals	73.15
6. Equipment	22.10
7. Building	14.20
8. Miscellaneous scheme	3.25
9. Additional staff (estimated Exp.)	25.61
	<u>135.30</u>

Details of new allocation are given in Annexure X to XIII.

- (5) Additional grant for building (including air conditioning) of Computer Centre, TDC-316, Ranchi and Gauhati Universities.

The Commission had earlier agreed to provide a grant upto Rs. 24 lakhs each to Ranchi and Gauhati Universities for setting up of a Computer Centre TDC-316 (First Phase) on the recommendations of an Expert Committee. In case of Ranchi University, the entire amount of Rs. 24 lakhs has been paid whereas in the case of Gauhati University an amount of Rs. 23 lakh only has so far been paid to the University.

In April, 1976, the Ranchi and Gauhati Universities requested the Commission to provide additional grants for air-conditioning, site preparation, furniture etc. for their Computer Centres and it has been agreed to provide an additional grant upto Rs. 2 lakhs to each of these two universities for installation of Computer (including Building and air-conditioning).

- (6) Approval of grants to additional Colleges under COSIP (Selected Colleges)

The approval of grants to 20 colleges during 1976 for undertaking COSIP has already been reported to the Commission at its meeting held in July, 1976 (Item 2 (a)(22)).

The proposals from the following 14 colleges have been examined and grants recommended for a period of 3 years for implementing COSIP with the approval of these colleges, the total additional colleges brought under the Scheme during 1976-77 comes to 34. Total No of Colleges participating in COSIP would thus be 147.

S.No	Name of the College	Affiliation to University	Grant approved	Date of Approval
1.	N.R.E.C. College, Khurja	Meerut	3,00,000	24.7.1976
2.	V.S.R. College, Tenali.	Andhra	2,50,000	-do-
3.	Mooljee Jaitha College, Jalgaon	Poona	2,50,000	-do-
4.	V.S.S.D.College, Kanpur	Kanpur	2,00,000	-do-
5.	Govt. Degree College, Anantrag	Kashmir	2,00,000	-do-
6.	Kirti M. Doongursea College, Bombay.	Bombay	2,00,000	-do-
7.	Post-Graduate College, Ghazipur	Gorakhpur	2,50,000	-do-
8.	Cotton College, Gauhati	Gauhati	2,50,000	27.8.1976
9.	Ballabhai Krishna Lal Majundar Science College, Valsad.	South Gujarat	2,50,000	-do-

10. Vidarbha Mahavidyalaya, Amrawati	Nagpur	2,00,000	27.8.1976
11. Govt. College, Kota	Rajasthan	2,00,000	-do-
12. Janta College, Bakwar	Kampur	2,50,000	-do-
13. Lady Brabourne College Calcutta	Calcutta	2,50,000	-do-
14. Presidency College, Calcutta.	Calcutta	3,00,000	-do-

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- (7) Non-recurring development grants placed at the disposal of the Universities to meet immediate requirements of equipment and Books/Journals before the visit of the V Plan visiting Committees.

The Commission has invited proposals for consolidation and development of higher technical education under Vth Plan from the Universities having Engineering and Technology departments within the provisional allocation. Pending the assessment of the requirements of the Universities by Visiting Committees, the commission has agreed to place an amount of Rs. 276.62 lakhs for the purchase of equipment and Rs. 104.30 lakhs for books and journals at the disposal of the universities to meet the immediate requirements for teaching. Statement of allocation made is indicated at Annexure.

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- (8) Restructuring of courses at First Degree level- Approval of grants.

The guidelines for the restructuring of courses at the first degree level were placed before the Commission at its meeting held on 10th Feb. 1975. In accordance with the recommendations of a sub-committee appointed to process the proposals received from the universities and colleges, the following proposals have been accepted :-

(1) Gujarat University

- (a) Drug Analysis (Chemistry)
- (b) Drug Analysis (Microbiology)
- (c) Banking Management

Total approved expenditure - Rs. 1,01,780.

(2) St. Xaviers College Ahmedabad - One year course in Textile Chemical Testing.

Total approved expenditure - Rs. 83,000.

Approval has been conveyed to the Gujarat University and St. Xavier's College, Ahmedabad vide Commission's letters Nos. F.5-3/76(ER), dt. 5th June, 1976 and No. F.6-1/76(ER) dated 26th May, 1976 respectively.

(9) Selection of Teachers under the scheme of utilisation of the Service of retired teachers- Meeting held on 25th May, 1976.

The meeting of the committee for selection of teachers under the schemes of utilisation of the services of retired teachers was held on 25th May 1976 at 10.30 a.m. in the office of the University Grants Commission.

2. In his introductory remarks Professor Satish Chandra, Chairman observed that the Scheme of "utilisation of services of retired teachers" is intended to assist universities and colleges to avail of the services of teachers of outstanding merit who have crossed the normal age of retirement but who are otherwise fit to continue their teaching and research work. He further said that in view of fact that the teachers selected under the scheme would also be eligible to apply for research grants to be considered by the respective subject panels and also the University Grants Commission has recently raised the amount of honorarium and contingency grants the emphasis ought to be more on research rather than on teaching.

3. The Committee desired that the guidelines may be suitably modified in the light of the remarks of the Chairman and the discussion which followed.

4. The Committee noted that under the scheme of utilisation of services of retired teachers the total number of placements available for retired teachers is 300 and at present 235 awardees are working under the scheme (as on 25th May 1976). The Committee therefore considered nominations in respect of 65 vacant places.

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5. The committee noted the extensions granted by the Chairman in the tenure of award to the teachers already working under the scheme beyond the tenure of first award of three years.
6. The Committee considered the requests received for extension in the tenure of award from awardees and recommended extension to 16 awards (Annexure I) subject to the condition that the second award would be available for a period of two years or upto the age of 68 years whichever is earlier.
7. The Committee recommended for sanction of awards to Professor W.L. Kulkarni, Professor Ramapati Shukla and Professor Vikramaditya Ray for a period of three years after taking into account the period of awards already availed by them subject to other usual conditions.
8. The committee recommended award under the scheme of utilisation of services outstanding retired teachers to Prof. JN Bhat and Dr. IS Varshneya without referring to experts in view of their eminence.
9. (a) Out of 105 proposals the committee recommended 44 candidates (Annexure-II) for award under the scheme for a period of three years or upto the age of 68 years whichever is earlier. The Committee further recommended as under for the following teachers :

Shri Sham Lal, Head of the Military studies, Meerut College, Meerut (S.No. 57) may be advised to modify his research plan in accordance with the suggestion of Lt. Col. M.G. Abhyankar.

Professor D.D. Desai, Head of the Department of Physics, K.G. Somaiya College of Science, Bombay may be advised to limit project according to Professor B.M. Udgaonkar's Advice.

Dr. V. Desai was recommended for award provided he worked at an Institution recognised by the Commission under Section 2 (f).

9. (b) The committee did not recommend award to 58 candidates under the scheme of 'USRT' and suggested that Shri ML Malhotra, Head of the English Department, Government College, Ajmer may be advised to apply for grant under the book writing scheme;

9 (c) The committee deferred the consideration of the following and desired that :-

The case of Dr. V.J. Jani may be referred to a third expert for comments.

Dr. D.W. Datar may be asked to submit a research project for consideration of the committee.

The case of Dr. Lal Bahadur, Principal, JN College, Etah may be referred to Professor SC Sarkar and Professor S.N. Prasad for their comments.

10. The committee considered the cases of teachers in whose cases the opinion of only one expert had been received so far. It agreed that in 9 cases where the opinion of one expert was not favourable may not be considered for the award.

The awards letters have been issued to the concerned institutions.

Similarly regret letters in respect of the teachers not selected under the Scheme have also been issued accordingly.

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(9) (a) Financial Assistance for practical training to the teachers of English through correspondence courses organised by the Central Institute of English and Foreign Languages, Hyderabad (A.P.)

The Commission at its meeting held on 11th November, 1974 agreed to assist the Central Institute of English and Foreign Languages, Hyderabad (A.P.) for organising a programme of intensive practical training leading to post-graduate certificate in the teaching of English for 1974 and 1975 and desired that this may be reviewed thereafter. The Commission also agreed to provide a grant of Rs. 43,850/- to the Institute for organising the course in 1974-75. The proposals of the Institute for organising similar courses at an estimated cost of Rs. 56,880/- for (1975 Summer) and Rs. 69,380/- for (1976 Summer) were also accepted. The Commission has now appointed a Committee to undertake a review of the programmes organised by the Institute. The report of the Committee will be placed before the Commission in due course.

(10) Organisation of an International Postgraduate Training Course in Vacuum Techniques and Applications by the Department of Physics, Bombay University in collaboration with BARC.

A request was received from the Division of Scientific Research and Higher Education UNESCO, Paris for Participation of some science departments in Indian Universities in their programme of organising long term- post-graduate courses in basic science. The Science panels were requested to recommend few departments for organising such courses. The proposals recommended by the panels were forwarded to UNESCO, Paris.

The UNESCO Paris, has now informed that of the proposals made by the University Grants Commission for organisation of long term postgraduate training courses in India, the UNESCO has accepted, in the first instance, the course on "Vacuum Techniques and Applications" to be organised in the Department of Physics, Bombay University in collaboration with B.A.R.C. The principles involved in the selection of this programme and the financial implications

are indicated as under :

1. First of all, the scientific excellence and interest which the sponsoring organisation have for international cooperation.
2. Secondly the possibility of having students and research workers coming:
 - a) from the host country
 - b) from other developing countries
 - c) from developed countries (at their own expenses)
3. Unesco will establish a contract with the authorities concerned the local authorities will engage themselves in providing a certain number of fellowships (6 to 7) for research workers coming from developing countries.

The Unesco will place at the disposal of the institute a sum not exceeding \$ 8,000 which the institute may use to pay for equipment, books, visiting scientists or to cover part of the travel expenses to the participants from developing countries. This amount would also be used to the extent necessary meeting the living expenses of fellows from developing countries. This would also be supplemented by the U.G.C. The living and travel expenses of fellows from universities in India would be met by the U.G.C. The UNESCO has been informed that the commission accepts this offer. The Bombay university has been requested to prepare information brochure for this course.

- (11) Consideration of candidates belonging to the category of Scheduled Caste by the relaxed standard for recruitment to the posts of Junior Stenographer reserved for the candidates belonging to the category of Scheduled Castes as per prescribed roster.

The Commission had invited applications through advertisement to fill the 3 posts of Junior Stenographer (English) reserved for candidates belonging to the category of Scheduled Castes. Out of the 59 candidates called for the prescribed test, 36 candidates took the test (at the prescribed speed of 80 w.p.m. in English shorthand and 40 w.p.m. in typewriting) which was arranged to be conducted by the Institute of Secretariat Training and Management. None of the candidates were declared successful. However, the candidatures of the following four candidates, by virtue of their being marginal cases, have been decided to be considered by the relaxed standard for recruitment to the posts of Junior Stenographer reserved for candidates belonging to the category of Scheduled Castes in the office of the University Grants Commission (vide orders dated the 22nd August, 1976):-

- i) Shri Bhagwant Singh
- ii) Shri Rameshwar Dayal Peehal
- iii) Shri Ghansham Dass
- iv) Shri Ram Phal.

- (12) Deputation abroad of Professor B. Ramachandra Rao, Vice-Chairman, University Grants Commission to Moscow from 11th August, 1976 to 25th August, 1976.

Professor B. Ramachandra Rao, Vice-Chairman, University Grants Commission proceeded on deputation to Moscow as a member of the Indian Delegation to the Soviet Union sent by the Department of Science and Technology, Government of India, on the invitation of USSR State Committee on Science and Technology from 11th August, 1976 to 25th August, 1976. In accordance with the normal procedure, the expenditure on his air travel by the appropriate class, excess baggage as admissible and airport tax will be borne by the University Grants Commission.

- (13) Extension of the tenure of the temporary posts sanctioned for the work relating to the Third National Survey (Higher Education Sector) in the office of the University Grants Commission.

As the work relating to the Third National Survey (Higher Education Sector) undertaken by the Commission continued, the tenure of the following temporary posts created for the Survey work in the office of the University Grants Commission which was to expire on the 31st August, 1976, has been further extended upto the 30th September, 1976 (vide orders dated the 24th August, 1976):-

<u>S. No.</u>	<u>Name of Post</u>	<u>No of posts.</u>
1.	Chief Coordinator	1
2.	Coordinator	2
3.	Senior Statistical Assistant	2
4.	Statistical Assistant	2
5.	Coder	3
6.	Junior Stenographer	1
7.	Lower Division Clerk/Typist	2
8.	Peon	1

UNIVERSITY GRANTS COMMISSION

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1. The Vice-Chairman discussed with the Chancellor, Shri Chenna Reddy, the reports of the Visiting Committee to Allahabad, Lucknow and Gorakhpur Universities on Monday, January 3, 1976 at Lucknow. The following were also present:

1. Professor R.V. Singh
Vice-Chancellor
Lucknow University
2. Shri S.B. Saran
Education Secretary
Government of U.P., Lucknow
3. Dr. A.P. Mehrotra
Director for Higher Education
Lucknow.

2. The Vice-Chairman brought to the notice of the Chancellor the concern of the Commission regarding the situation prevailing in these three universities as brought out by the Visiting Committee reports. In particular, he emphasised the following points :-

- i) Unplanned growth in enrolment both at the under-graduate and postgraduate levels has resulted in all round deterioration and fall in standards. The State Government should work out a clear cut enrolments policy for the Fifth Plan with particular reference to these three universities. Since there are a large number of undergraduate colleges run by these universities, the universities should admit only limited numbers of undergraduate students taking the best who qualify rather than all those who come upto minimum standard. This would free the universities for paying more attention to postgraduate teaching and research.
- ii) Non-plan Faculty positions remain vacant for long periods while there is great delay in States agreeing to maintain plan posts after the period prescribed. The existing practice of payment of ad-hoc allowances to teachers for acting against vacancies in readerships and professorships, thus creating a vested interest should be discontinued. For coping with teaching work, temporary lecturers may be appointed.
- iii) Neglect of students amenities, specially lack of proper maintenance of hostels, messes, common rooms, and unsatisfactory working of laboratories due to shortage of consumable libraries etc., it was suggested that block grant for these items should be suitably revised by the State Government.

The Vice-Chairman also emphasised the necessity of the universities adopting an innovative approach, in particular speedily impleme

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ting University Grants Commission proposals regarding autonomous colleges, reforms in the examination system, upgrading syllabi etc. The need of an academic planning Board which could act as an agency of innovative reforms was also stressed.

4. The Vice-Chairman also urged that the State Government may set up a Working Group or call a special meeting of the Vice-Chancellors in which the Commission could be represented to consider the implementation of the 10+2+3 system in the universities. In this context, he recalled the resolution of the Vice-Chancellors which has been endorsed by the CABE that in states U.P., the two-year B.A. Pass degree could be retained in most of colleges, and a third-year leading to an honours degree may be instituted in the universities and some selected colleges.

5. In the discussion, the following points emerged :-

- ∟ It was further agreed that the additional academic posts provided by the UGC.
- i) The universities have already been advised by the State Government that with effect from the academic year 1975-76 they should admit only such number of students as their existing norms regarding teacher-student ratio etc., prescribed. It was visualised that as a result of this excessive enrolment in many departments at various levels would be brought down to manageable proportions. A detailed note on the subject would be sent to the University Grants Commission for the Fifth Plan would not be used for expansion by university departments but for raising standards and emphasising research. Quick action would be taken regarding state assurance of maintaining plan posts after the stipulated period.
 - ii) The Chancellor informed that he was seized of the problem of excessive delay in the appointment of faculty in various universities and inbreeding and that the Government was contemplating the setting up of universities service commission to obviate these. The Vice-Chairman agreed that the proposal will be considered by the University Grants Commission.
 - iii) It was agreed that ad-hoc allowances against vacant professorships and readerships may be discontinued. Wherever necessary, temporary staff may be appointed to cope with the teaching work.
 - iv) It was agreed that the question of reforms in the examination system, updating syllabi etc. would be taken up with the Vice-Chancellors. In this context, it was urged that the University Grants Commission organise some workshops around these problems in some of the universities in the State. Regarding autonomous colleges it was pointed out that Statutes for the purpose had now been framed by the Government, a copy of the same was given to the Vice-Chairman for comments, if any.

- v) It was agreed that question of revising the block grant for the maintenance of hostels and for consumable materials etc., in laboratories, library etc. may be reconsidered and revised. It was also agreed that the universities be asked to expedite their proposals to the University Grants Commission for improving the old hostels in Lucknow and Allahabad Universities.
- vi) The question of book banks also came up for discussion. The Vice-Chairman said that he was unhappy with two items of the State Bank of India Loan Scheme:
- a) The scheme required endorsement on a book that it has been purchased with the assistance of the State Bank of India.
 - b) The loan will be repaid by levying a fee on borrower student.

It was assured that the condition regarding endorsement on the book will be deleted. As for the fee it was explained that it would not be more than Re.1/- per month for 10 months if a set of books costing Rs. 100/- was loaned to a student. The Vice-Chairman said that he did not mind if the fee was Rs.3/- to Rs. 5/- per year.

6. The Chancellor indicated that the various detailed comments of the Visiting Committees would be taken up with the Vice-Chancellors, Detailed notes arising from the discussion, or by the Vice-Chancellors in the light of the Visiting Committee Reports, would be sent to the Commission. He further stated that it was not necessary to call another meeting of the Vice-Chancellors of the three universities, the State Government and the Commission till the above action had been taken.

UNIVERSITY GRANTS COMMISSION

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New schemes of a non-recurring nature accepted by the Commission on the basis of the recommendations of Fifth Plan Visiting Committee for Books & Equipment.

S.No. Department	Rupees in lakhs	
	Books & Journals 100%	Equipment 100%
1. Physics	0.60	0.90
2. Chemistry	0.60	0.90
3. Botany	0.65	0.50
4. Zoology	0.65	0.50
5. Mathematics & Statistics	1.10	0.20
6. Military Science	0.35	0.10
7. English	0.15	0.02*
8. Hindi	0.25	0.02*
9. Sanskrit, Pali & Prakrit	0.10	--
10. Urdu	0.10	--
11. Ancient History, Culture & Arch.	0.35	0.70†
12. Modern & Medieval History	0.35	--
13. Sociology	0.35	--
14. Geography	0.35	--
15. Political Science	0.35	--
16. Philosophy	0.20	--
17. Psychology	0.30	0.15
18. Fine Arts & Music	0.10	0.10
19. Education	0.30	0.10
20. Commerce	0.35	--
21. Economics	0.35	--
22. Law	0.90	--
23. Central Library	1.90	0.63
24. Central Instrumentation Complex		
(a) Electronics Shop	--	1.02£
(b) Machine Shops	--	0.88©
(c) Laboratory Wing	--	1.24
Total →	10.70	7.94

* Tapes & Tape Recorder

† Excavation/Exploration & Museum & Photography Equipment.

£ Oscilloscope Test Equipment

© Lathes etc.

Annexure III to Item No. 2a(4)

UNIVERSITY GRANTS COMMISSION

GORAKHPUR UNIVERSITY

New Schemes of a non-recurring nature (Building/Furniture) accepted by the Commission on the basis of recommendations made by the Fifth Plan Visiting Committee.

S.No.	Department	UGC Share 50%	State Share 50%	Total
(Rupees in lakhs)				
1.	Ancient History Culture & Archaeology	1.70	1.70	3.40
2.	Geography	1.80	1.80	3.60
3.	Fine Arts & Music	1.50	1.50	3.00
		<u>Total-5.00</u>	<u>5.00</u>	<u>10.00</u>

New Schemes of a non-recurring nature accepted by the Commission on the basis of the recommendations of the Fifth Plan Visiting Committee Miscellaneous Schemes.

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S.No.	Department/Purpose	Amount (Rupees)
1.	Botany (Plant House Development)	50,000/-
2.	Zoology (Animal House Improvement)	50,000/-
3.	Zoology Museum	<u>25,000/-</u>
		<u>Total - 1,25,000/-</u>

Annexure IV to Item No.2a(4)

UNIVERSITY GRANTS COMMISSION

GORAKHPUR UNIVERSITY

Additional posts to be created during the Fifth Plan Period on the basis of the recommendations made by the Fifth Plan Visiting Committee as accepted by the Commission.

<u>S.No.</u>	<u>Department</u>	<u>Post</u>
A. <u>Teaching Staff</u>		
1.	Physics	1 Professor
2.	Chemistry	1 Professor (Quantum/Statistical me
3.	Botany	1 Professor
4.	Zoology	1 Professor
5.	Mathematics & Statistics	1 Professor in Mathematics
6.	Military Science	1 Reader
7.	English	1 Professor
8.	Hindi	1 Professor
9.	Sanskrit, Pali & Prakrit	1 Reader
10.	Urdu	1 Reader
11.	Sociology	1 Reader
12.	Modern & Medieval History	1 Reader
13.	Geography	1 Reader
14.	Political Science	1 Professor
15.	Philosophy	1 Professor
16.	Psychology	1 Reader
17.	Fine Arts & Music	1 Reader
18.	Education	1 Reader
19.	Commerce	1 Professor
20.	Economics	1 Professor
21.	Law	1 Reader
Total(A)		<u>11 Professor & 10 Readers</u>
B. <u>Non-Teaching Staff</u>		
1.	Botany	1 Photoartist 1 Curator
2.	Zoology	1 Tech. Asstt. 1 Curator 1 Tech. Asstt.
3.	<u>Central Instrumentation Complex:</u>	
	(a) Electronics Shop	1 Foreman 1 Technician
	(b) Machine Shop	1 Foreman
4.	Central Library	1 Professional Senior (Grade -II) 2 Professional Junior <u>4 Professional Assistants.</u>
Total (B)		<u>15 Others</u>
Grand Total :(A+B): 11 Professors, 10 Readers & 15 Others.		

: 2 :

i) Payment will be on the basis of actual expenditure per annum on the agreed sharing basis only in respect of posts above filled from the date of appointments upto the end of 31.3.1981, wherever specialisations have been indicated against posts above no change can be made without prior approval of the Commission.

ii) UGC share for Professor = 100%, Reader = 100% Lecturer = 75%
Technical Staff = 100%, Trained Coaches = 75%, Library Professional
Staff = 50%.

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Annexure V to Item No. 2(a)(4)

UNIVERSITY GRANTS COMMISSION

Allahabad University

New Schemes of a non-recurring nature accepted
by the Commission before the visit of
Fifth Plan Visiting Committee.

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1.	Construction of 300 Room Hostel for men students	Rs. 18,00,000/-
2.	Construction of 50 Rooms in Annexure to A.N. Jha Hostel for men students.	Rs. 2,71,440/-
3.	Equipment for Photographic Section, and Central Workshop	Rs. 75,000/-
Total :		<u>Rs. 21,46,440/-</u>

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Annexure VI to Item No. 2a (4)

New schemes of a non-recurring nature accepted by the Commission on the basis of the report made by the Fifth Plan Visiting Committee.

(Figures are in lakhs of Rupees)

S.No.	Department	Books & Journals (100%)	Equipment (100%)
1.	2.	3.	4.
1.	Chemistry	0.85	2.25
2.	Physics	1.00	2.00
3.	Botany	0.45	0.80
4.	Zoology	0.50	1.40
5.	Bio-Chemistry and Home Science	0.30	0.40
6.	Mathematics and Statistics	1.10	0.35
7.	Defence Studies	0.20	0.15
8.	<u>Central Instrumentation</u>		
	a) Machine Shop	-	0.25
	b) Electronic Shop	-	1.35
	c) Glass Blowing Shop	-	0.60
	d) Technical Optics Shop	-	0.40
	e) Central Laboratories (SEM)	-	12.00
9.	Sanskrit & Prakrit Languages	0.20	-
10.	Hindi	0.65*	-
11.	English & Modern European Languages	0.50	-

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* including Rs. 15,000/- for publication of Dictionary.

1.	2.	3.	4.
12.	Arabic and Persian	0.15	-
13.	Urdu	0.15	-
14.	Philosophy	0.50	-
15.	Psychology	0.60	0.60
16.	Fine Arts & Music	0.25	0.45
17.	Geography	0.40	0.35
18.	Ancient History Culture and Arch.	0.50	2.60**
19.	Medieval and Modern History	0.45	0.10***
20.	Political Science	0.60	-
21.	Education	0.40	0.20
22.	Economics	0.55	-
23.	Commerce & Business Administration	0.45	-
24.	Centre for Gandhain Studies	0.20	-
25.	Law	0.80	-
26.	University Library	4.50	0.40
Total:		Rs. <u>16.25</u> lakhs	Rs. <u>26.65</u> lakhs

** including Museum, Excavation/Exploration and a station wagon. Assistance for purchase of station wagon will be on 50:50 basis and recurring and other expenditure on the wagon will be met by the University.

*** including Maps and Microfilm Reader.

Annexure VII to Item No. 2(a)(4)

ALLAHABAD UNIVERSITY

New schemes of a non-recurring nature
accepted by the Commission on the basis
of the report made by the Fifth Plan
Visiting Committee.

	<u>U.G.C. Share</u>	<u>State Share</u>
Kitchen/Dining Room G.N. Jha Hostel	Rs. 30,000/-	Rs. 30,000/-
	<u>Rs. 30,000/-</u>	<u>Rs. 30,000/-</u>

ALLAHABAD UNIVERSITY

New Miscellaneous schemes of annual-recurring nature accepted by the Commission on the basis of the report made by the Fifth Plan Visiting Committee.

<u>S.No.</u>	<u>Department</u>	
1.	Botany (for Fern House and accessories)	Rs. 50,000/-
2.	Zoology (for Animal House B.C.D. Incubator and Museum)	Rs. 50,000/-
3.	Central Instrumentation Complex and Laboratory Workshop/Shed	Rs. 50,000/-
		Rs. <u>1,50,000/-</u>

ALLAHABAD UNIVERSITY

Additional posts to be created during fifth plan period on the basis of the recommendations of the Fifth Plan Visiting Committee accepted by the Commission.

S.No.	Department	Post	Specialisation
1.	2.	3.	4.
1.	Chemistry	1 Professor	Modern Spectroscopy or Chemical Instrumentation
		1 Reader	Liquid State/Statistical Mechanics
2.	Physics	1 Professor	Optical Spectroscopy or X-rays
		1 Reader	Experimental low temperature Physics/ Experimental Laser Physics.
3.	Botany	1 Reader 1 Curator 1 Photo Artist	Paleobotany
4.	Zoology	1 Professor 1 Photo Artist 1 Curator	--
5.	Biochemistry and Home Science	1 Professor	--
6.	Mathematics & Statistics	2 Professors	(One Professor in Mathematics) (One Professor in Statistics) (Mathematics)
7.	Defence Studio	1 Reader 1 Cartographer	--
8.	Sanskrit & Prakrit	3 Lecturers	--
9.	Hindi	1 Professor 1 Reader	-- ---
10.	English Studies and Modern European Languages	1 Professor 1 Reader	-- ---

1.	2.	3.	4.
11.	Urdu	1 Lecturer	
12.	Philosophy	1 Lecturer	--
13.	Psychology	1 Reader	--
		1 Lecturer	--
14.	Fine Arts and Music	1 Reader	--
		2 Lecturers	
15.	Geography	1 Reader	--
16.	Ancient History Culture and Archaeology	1 Professor	--
		2 Readers	--
17.	Modern and Medieval History	2 Readers	--
18.	Political Science	2 Readers	Political Sociology and Political System
19.	Economics	2 Readers	--
20.	Commerce and Business Adm.	2 Readers	--
21.	Law	2 Readers 1 Professional Junior for Department of Library	--
22.	<u>Central Instrumentation Complex</u>		
	a) Machinshop	1 Foreman	
	b) Electronic Shop	1 Sr. Engineer	In Electronics and Electronics Instrumentation
		2 Tech. Asstt.	
	c) Glass Blowing Shop	1 Foreman	--
	d) Technical Optics Shop	1 Foreman	--

: 3 :

1.

2.

3.

4.

e) Central Laboratory 1 Foreman
for SEM.

23. University Library

1 Dy. Librarian

1 Professional
Senior Grade I

1 Professional
Senior Grade II

2 Professional
Junior

8 Professional
Assistants

Total: 9 Professor, 21 Reader, 8 Lecturer + 26 others.

Annexure X to
Item No. 2(a)(4)

LUCKNOW UNIVERSITY

New schemes of a non-recurring nature accepted by the Commission on the basis of the report made by the Fifth Plan Visiting Committee.

(Figures are in lakhs of Rupees).

S.No.	Department	Equipment (10%)	Books and Journals (100%)
1.	2.	3.	4.
1.	Physics	3.50	1.00
2.	Chemistry	3.40	1.00
3.	Biochemistry	1.50	0.50
4.	Botany	2.25	0.50
5.	Zoology	2.25	0.50
6.	Geology	1.13	0.25
7.	Mathematics & Astronomy	0.22	1.00
8.	Statistics	0.65	0.45
9.	English and Modern European Languages	-	0.60
10.	Philosophy	-	0.60
11.	Psychology	0.60	0.60
12.	Education	-	0.15
13.	Ancient Indian History and Arch.	0.70	0.40

p.t.o.

1.	2.	3.	4.
14.	Medieval and Modern History	-	0.40
15.	Western History	-	0.40
16.	Political Science	-	0.40
17.	Public Administration	-	0.40
18.	Economics	-	0.40
19.	Sociology	-	0.40
20.	Social Work	-	0.40
21.	Anthropology	1.00	0.40
22.	Arabic	-	0.15
23.	Persian	-	0.15
24.	Sections on Oriental Studies	-	0.15
25.	Urdu	-	0.15
26.	Sanskrit and Prakrit Languages	-	0.15
27.	Hindi	0.05	0.65
28.	Library Science	-	-
29.	Commerce	-	0.40
30.	Applied Economics	-	0.40
31.	Law	-	0.70
32.	Electronic Shop	2.00	-
33.	Machine Shop	0.90	-
34.	Glass Blowing Shop	1.00	-
35.	Technical Optics Shop	0.55	-
36.	Central Laboratories	-	-
37.	Central Library	0.40	4.50
	Grand Total:	<u>22.10</u>	<u>13.15</u>

Annexure X to
Item No. 2(a) (4)

LUCKNOW UNIVERSITY

New schemes of a non-recurring nature
accepted by the Commission on the basis
of the report made by the Fifth Plan
Visiting Committee.

(Figures are in lakhs of
Rupees).

S.No.	Department	Equipment (100%)	Books and Journals (100%)
1.	2.	3.	4.
1.	Physics	3.50	1.00
2.	Chemistry	3.40	1.00
3.	Biochemistry	1.50	0.50
4.	Botany	2.25	0.50
5.	Zoology	2.25	0.50
6.	Geology	1.13	0.25
7.	Mathematics & Astronomy	0.22	1.00
8.	Statistics	0.65	0.45
9.	English and Modern European Languages	-	0.60
10.	Philosophy	-	0.60
11.	Psychology	0.60	0.60
12.	Education	-	0.15
13.	Ancient Indian History and Arch.	0.70	0.40

p.t.o.

Annexure X to
Item No. -2(a)(4)

LUCKNOW UNIVERSITY

New schemes of a non-recurring nature
accepted by the Commission on the basis
of the report made by the Fifth Plan
Visiting Committee.

(Figures are in lakhs of
Rupees).

No.	Department	Equipment (100%)	Books and Journals (100%)
1.	2.	3.	4.
1.	Physics	3.50	1.00
2.	Chemistry	3.40	1.00
3.	Biochemistry	1.50	0.50
4.	Botany	2.25	0.50
5.	Zoology	2.25	0.50
6.	Geology	1.13 ⁰	0.25
7.	Mathematics & Astronomy	0.22	1.00
8.	Statistics	0.65	0.45
9.	English and Modern European Languages	-	0.60
10.	Philosophy	-	0.60
11.	Psychology	0.60	0.60
12.	Education	0.15	0.15
13.	Ancient Indian History and Arch.	0.70 ¹	0.40

p.t.o.

1.	2.	3.	4.
<u>PROGRAMME WISE</u>			
14.	Medieval and Modern History	-	0.40
15.	Western History	-	0.40
16.	Political Science	-	0.40
17.	Public Administration	-	0.40
18.	Economics	-	0.40
19.	Sociology	-	0.40
20.	Social Work	-	0.40
21.	Anthropology	1.00	0.40
22.	Arabic	-	0.15
23.	Persian	-	0.15
24.	Sections on Oriental Studies	-	0.15
25.	Urdu	-	0.15
26.	Sanskrit and Prakrit Languages	-	0.15
27.	Hindi	0.05	0.65
28.	Library Science	-	-
29.	Commerce	-	0.40
30.	Applied Economics	-	0.40
31.	Law	-	0.70
32.	Electronic Shop	2.00	-
33.	Machine Shop	0.90	-
34.	Glass Blowing Shop	1.00	-
35.	Technical Optics Shop	0.55	-
36.	Central laboratories	-	-
37.	Central Library	0.40	4.50
Grand Total:		<u>22.10</u>	<u>13.15</u>

Annexure XII to
Item No. 2(a) (4)

LUCKNOW UNIVERSITY

--
New Miscellaneous schemes of a non-recurring nature accepted by the Commission on the basis of the report made by the Fifth Plan Visiting Committee.

<u>S.No.</u>	<u>Department</u>	<u>Amount</u>
1.	Bio-chemistry Airconditioning of Animal House	0.50
2.	Botany (Cold room)	1.00
3.	Zoology (Animal House)	1.50
4.	Museum	0.25
		<hr/>
	Total:	3.25
		<hr/>

Annexure XIII to
Item No. 2(a) (4)

LUCKNOW UNIVERSITY

Additional posts to be created during
Fifth Plan period on the basis of the
recommendation of the Fifth Plan
Visiting Committee accepted by the
Commission.

<u>S.No.</u> (1)	<u>Department</u> (2)	<u>Posts</u> (3)	<u>Specialisation</u> (4)
<u>FACULTY OF SCIENCE</u>			
1.	Physics	2 Professors	Experimental laser Physics theoretical Physics
		2 Readers	Experimental laser Physics/State theory.
2.	Chemistry	1 Professor	Quantum Chemistry/ Statistical Mechanics
		2 Readers	Polymer Chemistry and Chemical Physics, X-ray diffraction studies in Liquids.
		1 Lecturer	Microanalyst
		1 Tech.asstt.	--
3.	Bio-chemistry	2 Readers	Animal Caretaker-1 Veterinarian - 1
		1 Tech.Asstt.	(Cold room)
4.	Botany	2 Professors	-
		1 Reader	-
		1 Curator	-
		2 Photoartist	-
		1 Tech.Asstt.	-

p.t.o.

1.	2.	3.	4.
5.	Zoology	1 Professor 2 Reader 1 Animal Caretaker Veterinarian	Animal Caretaker-1 Veterinarian-1 (Cold room)
6.	Geology	1 Professor 1 Reader 1 Storekeeper 1 Artist	--- Structures Metamorph- isism/Stratigraphy/eco Geol. -- --
7.	Mathematics & Astronomy	1 Professor 2 Readers 1 Lecturer	Differential Geometry Relativity Cosmology -- --
8.	Statistics	1 Professor 1 Reader	-- --
Total: A:		9 Professors, 13 Readers, 1 Lecturer and 11 others	

B. FACULTY OF ARTS

9.	English	1 Professor 1 Reader	-- --
10.	Philosophy	1 Reader 1 Lecturer	-- --
11.	Psychology	1 Reader 1 Lecturer	-- --
12.	Education	1 Reader 1 Field Supervisor	-- --

1.	2.	3.	4.
13.	Ancient Indian History & Arch.	1 Reader 1 Field Supervisor	- -
14.	Medieval and Modern History	1 Reader 1 Research Asstt.	- -
15.	Western History	1 Reader	-
16.	Political Science	1 Professor	-
17.	Public Admn.	1 Reader	-
18.	Economics	1 Professor	-
19.	Sociology	1 Professor	-
20.	Social Work	1 Reader	-
21.	Anthropology	1 Professor 1 Field Supervisor	- -
22.	Arabic	1 Reader	-
23.	Persian	1 Professor	-
24.	Section on Oriental Studies	1 Reader	-
25.	Urdu	1 Reader	-
26.	Sanskrit	1 Lecturer	-
27.	Hindi	1 Professor	-
28.	Library Science	1 Reader	-

Total (B): 7 Professors, 13 Readers, 3 Lecturers and
3 others

1.	2.	3.	4.
----	----	----	----

(C) FACULTY OF COMMERCE

29.	Commerce	1 Professor	-
30.	Applied Economics	1 Reader	-

Total (C): 1 Professor and 1 Reader

(D) FACULTY OF LAW

31.	Law	1 Professor	-
		2 Reader	-

Total (D): 1 Professor and 2 Readers

32.	Electronic Shop	1 Engg (Elect.)	-
		2 Technical Asstt.	-

33.	Machine Shop	1 Foreman	-
		2 Technical Asstt.	-

34.	Glass Blowing Shop	1 Foreman	-
		1 Technical Asstt.	-

35.	Technical Optics Shop	1 Foreman	-
		1 Technical Asstt.	-

36.	Central Library	1 Professional Senior (Librarian)	-
		2 Professional Junior-	-
		4 Professional Asstt.	-

Microfilming

Technicians.

Grand Total (A+B+C)	13 Professors
	29 Readers
	4 Lecturers and
	31 Others

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

S.No.	Name of the University	Provisional Vth Plan allocation	Amount approved for equipment to meet immediate requirements	Amount approved for books and journals to meet immediate requirements
(Figure in lakhs)				
1.	Aligarh	150	21.85	8.26
2.	Allahabad	15	2.05	.74
3.	Andhra	100	14.75	5.37
4.	Annamalai	75	11.00	4.13
5.	B.H.U.	400	36.00	14.50
6.	B.I.T.S.	75	10.62	3.98
7.	Bangalore	75	11.25	4.22
8.	Bombay	60	8.50	3.17
9.	Calcutta	60	8.12	3.12
10.	Jadavpur	400	39.62	14.87
11.	Jodhpur	30	4.37	1.69
12.	Madras	60	8.77	3.27
13.	M.S. Baroda	150	20.65	3.31
14.	Nagpur	45	6.65	2.43
15.	Osmania	75	11.25	3.87
16.	Panjab	45	6.55	2.33
17.	Patna	30	4.50	1.43
18.	Poorkee	400	35.50	13.25
19.	Sambalpur	30	4.50	1.58
20.	Sagar	15	2.25	.84
21.	S.N.D.T. Womens'	10	1.50	.56
22.	Sri Venkateswara	45	6.37	2.33
			<u>276.62</u>	<u>104.30</u>

Annexure I to Item No. 2(a)(9)

S.No.	Name & Institution	Subject	Period of first award	Extension requested
1.	Dr. Rameshwar Prasad Gupta, Rajasthan University	English	2.7.73 to 1.7.76	2.7.76 to 1.7.78
2.	Dr. VM Thomas Madras University	Philosophy	25.6.73 to 24.6.76	25.6.76 to 24.6.78
3.	Prof. M. Sircsi Indian Institute of Science, Bangalore	Microbiology	1.8.73 to 31.7.76	1.8.76 to 31.7.78
4.	Dr. J. S. Dave, M.S. University of Baroda	Chemistry	25.6.73 to 24.6.76	25.6.76 to 24.6.78
5.	Prof. M. Viswanathan Madras University	Economics	20.7.73 to 19.7.76	20.7.76 to 19.7.78
6.	Sh. R. Gururaja Rao Mysore University	Fine Arts	16.3.73 to 15.3.76	16.3.76 to 15.3.78
7.	Shri V.V. Rao Gauhati University	Pol.Sc.	1.6.73 to 31.5.76	1.6.76 to 13.12.77 (68 yrs. on 14.12.77)
8.	Shri CL Antony	Malayalam	2.7.73 to 1.7.76	2.7.76 to 1.7.78
9.	Miss. Lucy Thomas Madras University	English	25.7.73 to 24.7.76	25.7.76 to 24.7.78
10.	Prof. A. Ramanathan Madras University	Mathematics	2.7.73 to 1.7.76	2.7.76 to 1.7.78
11.	Dr. N.G. Mageshwar Bombay University	Bio-Chemistry	8.5.73 to 7.5.76	8.5.76 to 7.5.78
12.	Prof. A.C. Deveshwar Guru Nanak University	English Literature	11.7.73 to 10.7.76	11.7.76 to 10.7.78
13.	Dr. R.D. Gupta Bombay University	Physics	2.7.73 to 1.7.76	2.7.76 to 1.7.78
14.	Dr. S.K. Bhattacharya Banaras Hindu University	Chemistry	23.6.73 to 27.6.76	23.6.76 to 28.2.77 (68 yrs. on 1.3.77)
15.	Dr. K.C. Sankar	Commerce	23.9.73 to 27.9.76	23.9.76 to 25.8.77 (68 yrs. on 26.8.77)
16.	Sh. A. Ramaswami Annamalai University	Tamil	4.7.73 to 3.7.76	4.7.76 to 3.7.78

<u>Subject</u>	<u>S.No.</u>	<u>Name of teacher and place of work</u>
	17	Dr. J. Verma, Christ Church College, Kanpur
History	18	Shri S.R. Tyagi, Vardhman College Bijnor
	19.	Dr. R.B. Singh, Gorakhpur University Gorakhpur
Oriya Literature	20	Prof. Jaya Krishna Mishra, Ravenshaw College, Cuttack
Kannada	21	Prof. S.V. Paramaswara Bhatta Mysore University, Mysore
Malyalam Literature	22	Shri KM Daniel, University College Trivendrum
	23	Shri P.G. Pursothaman Pillai, Sree Kerala Varma College, Trichur
Tamil	24	Shri P.S. Ramanujachari, Annamalai University
Mathematics	25	Dr. S. Parameshwaram, University College Trivandrum
Military studies	26	Shri Sham Lal, Meerut College, Meerut
Physics	27	Prof. D.D. Desai, K.J. Somaji College of Science, Bombay
	28	Shri A.O. Mathai, M.A. College, Kothanangalam, Kerala
	29	Dr. V.L. Talekar, Malaviya Regional Engineering College, Jaipur
Philosophy	30	Dr. Kalicharan Das, Gauhati University
	31	Shri D.Y. Deshpande, Vidarbha Mahavidyalaya, Amravati
Psychology	32	Dr. N.L. Dosajh, Panjab University Chandigarh
	33	Prof. Sri Chandra Aligarh Muslim University, Aligarh
Pol.Sc.	34	Dr. R.C. Ghosh, Calcutta University Calcutta.

: 3 :

<u>Subject</u>	<u>S.No.</u>	<u>Name of teacher and place of work.</u>
	35	Dr. Rameshwar Bakhsh Das, Lucknow University.
Pali and Buddhist	36	* Dr.V.Dhammaratana Nav Nalanda Mahavidhara, Nalanda. * He has to work in a recognised Institute.
Statistics	37	Shri Banwari Lal, Meerut College, Meerut.
	38.	Dr.D.N.Lal, Patna University, Patna.
Sanskrit	39	Dr. B.N.Pandit, Delhi University, Delhi.
	40	Dr.T.K.Krishnaswami Aiyar, Dibrugarh University.
	41	Dr.V.M.Kulkarni, Bombay University, Bombay.
Urdu/Persian	42	Syed Ali Shah Masdar, A.S.College, Srinagar.
	43	Dr.Bahadur Manekji Gai, Bombay University, Bombay.
Telegu	44	Sri J.Narayana Sastry, Andhra Jateya Kalasala, Machilipatnam.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

22nd September, 1976.

Additional note : under item No. 2a (4)

The Commission while approving the Fifth Plan schemes of the Allahabad, Lucknow and Gorakhpur Universities made it clear that the payment of grant would be made only on receipt of necessary assurances from the State Government/universities regarding matching share continuation of posts after 1.4.81 and other related matters. The Secretary, Department of Education, Government of Uttar Pradesh has sent necessary assurances in respect of Allahabad and Lucknow Universities. A copy each of his letter received in this regard is attached (Appendix 1 & 2). Assurances in respect of Gorakhpur University are awaited.

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S:LK

Appendix. I

Copy of the letter D.O.No. 7638/15-10/76 dated 6th September, 1976 from Shri S.B. Saran, Commr. & Secretary, Vidhan Bhawan, Education(10) Section, Lucknow addressed to Shri R.K. Shhabra, Secretary, University Grants Commission, Bahadur Shah Zafar Marg, New Delhi.

"112"

Kindly refer to your D.O. No. F.26/1/75-D2(a) dated July 24, 1976, regarding the report of the Visiting Committee which assessed the Vth Plan Development proposals of the Lucknow University.

2. I am to state that the State Government are prepared to meet cost on 100% basis on the posts which will be approved by the University Grants Commission, after their assistance ceases at the end of five years and shall treat the expenditure thereon as committed expenditure of the State Government.

3. As regards other points raised in your letter referred to above, I am to say as follows :-

(a) Number of admissions to various classes in the University was reduced in the academic session 1975-76 and further reduction in 1976-77. No admission has been made beyond the limit fixed for each class.

(b) All officiating appointments of Professors and Readers have been discontinued after 30th June, 1976. Seventy meetings of Statutory Selection Committee have been held between January and June, 1976 and 115 appointments of teachers have been made. Vigorous efforts are being made to fill up all vacancies through Statutory Selection Committee. As regards Registrar/Deputy Registrar/Assistant Registrar. These appointments are being made in accordance with the procedure laid down in the U.P. State Universities (Centralized) service Rules, 1975.

(c) There is a Library Committee in the University which constantly looks after the organisation of the University Library with particular reference to the needs of the various departments. Provision has been made under clause 2.21 of the First Statutes of the Lucknow University for the appointment of a whole time Librarian. Sanction of this post is under the consideration of the State Government.

(d) The amount approved by the State Government during the year 1966-67 on the following items are indicated against each item:

(i) Books and Journals	Rs. 2,50,000.00
(ii) Maintenance of Buildings including hostels	Rs. 3,78,000.00
(iii) Laboratories	Rs. 4,25,000.00

Appendix II

Copy of the letter D.O. No. 6409/15-10-76-2(11)/76 dated 27th July, 1976 from Shri S.B. Saran, Commr. & Secretary, Vidhan Bhawan, Education (10) Section, Lucknow, addressed to Shri R.K. Chhabra, Secretary, University Grants Commission Bahadur Shah Zafar Marg, New Delhi.

.....

Kindly refer to your D.O. No. 26-1/76(D-2(a)) dated June 30, 1976 regarding the report of the Visiting Committee which assessed the Vth Plan development proposals of the Allahabad University.

2. I am to state that the State Government are prepared to meet cost on 100% basis on the posts which will be approved by the University Grants Commission, after their assistance ceases at the end of five years and shall treat the expenditure thereon as committed expenditure of the State Government.

3. As regards other points raised in your letter referred to above. I am to say as follows :-

(a) Introducing Honours Courses at Allahabad University. The University has been asked to work out the details and evolve a procedure for starting honours classes.

(b) Appointment of academic staff:

(i) The teachers of the University are being appointed by the Executive Council on the recommendation of a Selection Committee constituted in accordance with the provision contained in U.P. State Universities Act, 1973.

(ii) Other Staff:

Registrar/Deputy Registrar/Asstt. Registrar- These appointments are being made in accordance with procedure laid down in the U.P. State Universities (Centralized) Service Rules, 1975.

(iii) No ad-hoc appointments are being made against the post of Professors and Readers and no officiating allowances are being paid to them.

(c) Reorganization of University Library:

A number of additional posts (whole time librarian, Deputy Librarian & other technical posts) have already been sanctioned by the State Government. It is upto the University to appoint the aforesaid staff in accordance with the provisions contained in the statutes & Ordinances of the University.

(d) The amount approved by the State Government during the year 1976-77 on the following items are indicated against each item:

i) Books & Journals	Rs. 3,25,000.00
ii) Maintenance of Building	Rs. 3,00,000.00
iii) Laboratories	Rs. 4,00,000.00

Besides this special grant of Rs. 1.5 lac has been sanctioned to this University during the year 1975-76 for purchase of scientific books and journals.

(e) Provision for a whole time librarian:

As indicated against items (c) above, a post of whole time Librarian has already been sanctioned by the State Government to this University.

Confidential

UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 22nd September, 1976.

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

.....

- (1) Central Scheme of loans for construction of hostels in affiliated/constituent colleges during fifth plan period.

.....

The Ministry of Education and Social Welfare have sent a copy of the communication addressed to all State Governments/Union Territories Adms. regarding the scheme for providing loans to affiliated/constituent Colleges for construction of hostels during the fifth plan period. The relevant extract from the letter received from the Ministry of Education and Social Welfare is reproduced below :-

"I am directed to say that it has been decided to continue in the Fifth Five Year Plan the Central Scheme of Loans to State Governments for construction of hostels in colleges. Under the scheme, the loans are re-loned to the affiliated colleges of Universities for the construction of hostels on interest at such rates as may be prescribed by the Central Government from time to time and will be repayable over a period of 13 years as was the case during the Third and Fourth Plan periods. The maximum amount of the loan admissible to each college will not exceed Rs. 2,00 lakhs. The Colleges which have received from the University Grants Commission or have applied to it for grant-in-aid for the construction of hostels during the Third, Fourth or the current Plan period will not be sanctioned any loan under the scheme. Also, colleges which have already received loans from this Ministry for the construction of hostels during the Third/Fourth Plan period will not be entitled for being considered for grant of loans during the Fifth Plan period.

2. A copy of the scheme of loans for construction of hostels, is enclosed (Annexure). Considering that there is a total plan allocation of Rs. 20 lakhs for the Fifth Five Year Plan, only a few deserving application can be considered during a year. It is requested that the State Governments after calling for applications from the colleges, may carefully examine them and decide their admissibility under the scheme and forward to this Ministry not more than one application, complete in all respects, during 1976-77. (The application during 1974-75 and 1975-76 were not invited as there was ban on construction of non-functional buildings). Another application may be recommended during 1977-78 or 1978-79.

3. It may also kindly be borne in mind that the case of a college which has already benefitted through a loan from this Ministry or a grant from the University Grants Commission for the construction of hostels on an earlier occasion should not be forwarded."

p. t. o.

(2) West Bengal Universities (control of expenditure) Bill 1976.

The Government of West Bengal had issued an ordinance regarding the West Bengal Universities (Control of Expenditure) Bill 1976, which has been passed by the West Bengal Assembly on the 22nd March, 1976 to provide for the control of expenditure in various universities, and colleges affiliated to such universities in West Bengal. The main features of the Amended Act of Universities in West Bengal is indicated below :-

Defination 2(h) "Revised scale" means any of the scales of pay sanctioned by the Government of West Bengal, Education Department Order No. 372-Edn.(CS)/5P-9/74, dated 7th April 1975 which is reproduced in the Schedule to this Act :

Provided that the State Government may, by notification published in the Official Gazette, amend the Schedule from time to time and the Scheduled so amended shall be deemed to be part of this Act;

No post to be created or appointments made without State Government's approval.

(3) (i) Notwithstanding anything contained in any law for the time being in force or in any contract, custom or usage to the contrary, no university or no college affiliated to such university, excepting a college which is,

- (a) established, maintained or administered by the State Government, or
- (b) established by a religious or linguistic minority, or
- (c) not in receipt of any financial assistance from the State Government,

Shall, after the commencement of this Act,-

- i) create any teaching or non-teaching post involving any financial liability,
- ii) increase the pay or allowances attached to any post or sanction any new allowances: provided that the State Government may, by an order, revise the scale of pay attached to such post or sanction any new allowance,
- iii) grant any special pay or allowance or other remuneration under any description whatsoever including ex-gratia payment or any other benefits having financial implication to any person holding a teaching or non-teaching post, or
- iv) incur, except as provided in the rules prescribed for the purpose, any expenditure on any development scheme,

without the prior sanction of the State Government.

(2) Notwithstanding anything contained in any law for the time being in force or in any contract, custom or usage to the contrary no college other than any of the colleges referred to in clauses (a), or (b) or (c) of sub-section (1) shall, after the commencement of this Act, appoint any person to any post without the prior sanction to the State Government:-

Provided that no sanction of the State Government shall be necessary for filling up any sanctioned post of a teacher for a period not exceeding six months by a candidate who possesses the prescribed qualifications.

Retirement of teachers

4. Every teacher of a university or any college affiliated to such university who is in receipt of pay in the revised scale shall retire from service on attaining the age of sixty years. . . .

Inquiry into the affairs of the university or colleges.

5. The State Government may, as and when it considers necessary, institute inquiry into the affairs of a university or college affiliated to such university, relating to financial matters and exercise control over such matters through such agency as the State Government may think fit to appoint in this behalf.

Submission of budget.

6. (i) Notwithstanding anything contained in any Act, or in any Regulation made thereunder, every University shall submit showing its estimated receipts and disbursements for the following year, to the State Government immediately after the same is finalised by the University at a meeting specially convened for the purpose.

Statute, ordinances or

(2) A University may submit a supplementary budget at any time within the financial year to the State Government.

(3) Notwithstanding any thing contained in sub-section (1) or sub-section (2), the State Government may authorise a University to incur any expenditure not forming part of its budget or supplementary budget, as the State Government considers necessary. Explanation- for the purpose of this Section, financial year means the year ending on the 31st day of March.

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(3) Recommendations of the Joint Committee of AICTE and UGC to bring uniformity at first degree Engineering course followed in all Engineering Colleges and Institutions in the light of uniform pattern of Secondary Education and also a uniform pattern of Higher Secondary Education (10+2).

The joint Committee of the University Grants Commission and AICTE at its meeting held on 4.5.5.1976 under the Chairmanship of Professor Satish Chandra noted that the Study Groups have examined the question of duration of the course and characteristics

of the new pattern of education. The Committee made the following recommendations :

- (i) In the light of uniform pattern of Secondary Education and also a uniform pattern of higher secondary education (10+2), there should be a uniform pattern of first engineering degree course followed in all engineering colleges and institutions.
- (ii) After the introduction of (10+2) the entry to first degree engineering course will take place after 12 years of schooling. Detailed guidelines are to be worked out for the institutions which are likely to admit students at different levels.
- (iii) The first degree course will be of 4 years instead of 5 years. However, during the transitional period from 1976-77 to 1980-81, both the 4 years and 5 years programmes will continue. The students who come from 10+2 system of schooling will get exemption from the first year course on the basis of the test conducted by the Institution.
- (iv) There will be compulsory one year industrial training after the completion of the first degree programme in engineering colleges/institutions. The training programme should be well organised in order to have desired results.
- (v) The future task is to formulate a broad curriculum and syllabi for the 4 years degree programme in all major discipline of Engineering and Technology.

The AICTE at its meeting held on 21.5.1976 accepted the recommendations of the joint committee. The Council further recommended that in case of weaker section of the Society especially Scheduled Castes/Scheduled Tribes, the scholarships awarded by the Central and State Governments be extended by one to two semesters in the case of 4 years.

The Ministry of Education & S.W. (AICTE) is taking necessary action to intimate the recommendations to all universities/institutions having Faculties of Engineering/Technology for guidance.

A copy of the minutes of the meeting of the joint Committee held on 5th May 1976 is given as Appendix.

- (4) Establishment of the Nagarjuna University, Guntur and Kakatiya University, Warangal in Andhra Pradesh.

The Government of Andhra Pradesh has intimated that the Nagarjuna University Act, 1976 and the Kakatiya University Act, 1976 have become effective with effect from 19th August, 1976. The Nagarjuna University, Guntur has been established by converting the Andhra University

Centre for Postgraduate Studies at Gunture. Similarly, the Kakatiya University, Warangal has been established by converting the Osmina University Centre for Postgraduate Studies at Warangal.

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(5) Indo-GDR Cultural Exchange Programme for the years 76-1977

The following items have been assigned to U.G.C. for implementation:

<u>Item No.</u>	<u>Particulars</u>	<u>Duration</u>
1.	Both sides shall send delegations in the field of higher education (6 to 8 persons) in order to promote an effective cooperation in selected fields of social sciences, natural sciences and technology between institution of higher learning of both countries for the mutual benefit.	3 to 5 week each
2.	Both sides shall hold seminars on fundamental problems of the history of the 19th and 20th centuries alternately and nominate 4-5 experts from the other side to participate in the seminars. The details shall be worked out by mutual consent.	Upto 4 weeks each
3.	Both sides shall promote, within the scope of their possibilities, scientific cooperation between selected universities in India and the GDR in the following fields: a) Ship technology (Humboldt University Cochin University) b) International politics & economy, Asia Sciences, and history (Humboldt University, Berlin-Jawaharlal Nehru University, New Delhi). c) Economy of capitalism and Economy of Socialism (College of Economics "Bruno Leuschner", Berlin- Deptt. of Economics, Punjab University, Chandigarh.	

In addition to the above mentioned both sides shall encourage and develop bilateral contacts and exchanges between Departments of Universities and other institutions of higher learning in both countries in the fields of deepsea fishery, electrotechnics, polymer technology, pulp technology absorption measurements in the short-wave range of the ionosphere, liquid crystal technology mathematics, physics, chemistry, life sciences, social sciences and other fields as may be mutually agreed upon.

Duration shall be mutually agreed upon

4. The GDR side shall send and the Indian side shall receive annually upto 8 scientists for teaching, holding seminars and doing research work at universities and educational institutions in India in the fields mentioned under item 3. 4-12 weeks
5. The Indian side shall send and the GDR side shall receive annually 5-8 scientists for teaching, holding seminars and doing research work in the fields mentioned under item 3. 4-12 weeks
6. The Indian side shall send and the GDR side shall receive annually three younger scientists for research and advanced training in the fields of international politics and economy history, agriculture, botany geology, philosophy and German linguistics. 6 months each
7. The GDR side shall send and the Indian side shall receive one Indologists for archive and material studies in the National Archives, New Delhi, and at Indian Universities. 8-10 weeks
8. The Indian side shall send and the GDR side shall receive annually a group of four to five Germanic Philologists/German Language teachers to participant in the International University Vacation Course of German philology. The GDR side shall bear the costs of air travel for two participants. 4 weeks
9. The Indian side shall send and the GDR side shall receive in 1977 two to three participants in the International university vacation Course of Economy. 4 weeks
10. The GDR side shall send and the Indian side shall receive in 1977 one specialists in the field of tropical medicine for studies. 2 months
11. The Indian side shall send and the GDR side shall receive in 1976 one scientist in the field of pharmaceutical research for studies and exchange of experience. 4-6 weeks
12. Both sides shall exchange on expert in the field of the organization of tuberculosis control. 4-6 weeks
13. The GDR side shall receive in 1976 one immunologist for studies 4-6 weeks
14. The Indian side shall send and the GDR side shall receive in 1977 one specialist in the field of tropical medicine for a lecture tour. 3 months
15. Both sides shall exchange scientific literature and other scientific material.
- 15/0 The GDR side shall send in 1977 One Germanic philologist. The university at which he may work shall be mutually agreed upon.

Annexure to Item No. 2(b)(1)

Government of India
MINISTRY OF EDUCATION AND SOCIAL WELFARE
(Department of Education)

FIFTH FIVE YEAR PLAN (1974-79) - CENTRAL
SCHEME FOR GRANT OF LOANS FOR CONSTRUCTION
OF STUDENT HOSTELS IN AFFILIATED COLLEGES:

INTRODUCTION:

In the Second Five Year Plan period, the Government of India administered a scheme for grant of loans for the construction of student hostels in (i) colleges affiliated to Universities; (ii) High Schools, Higher Secondary Schools including Multipurpose Schools and Teacher - training institutions; and (iii) Institutions of Basic and Social Education. The Physical Education Training Institutions were brought under the purview of scheme in 1959-60.

2. In the Third Five Year Plan period, this was replaced by a Scheme under which loans were sanctioned for construction of student hostels exclusively in the affiliated colleges as well as construction of student hostels in the universities and the colleges affiliated to the Delhi University. During the Third Plan period, the scheme was operated in the following parts:-

- i) Loans granted to State Government for being re-loaned to the affiliated colleges for construction of student hostels.
- ii) Loans granted to Union Territory Administrations for being re-loaned to the affiliated colleges for construction of hostels.

Subsequently, for administrative reasons, part (ii) was discontinued and the loans under this category were being sanctioned under part (iii).

3. The scheme for the Fifth Five Year Plan period 1974-79 is broadly patterned after the Third and Fourth Plan schemes and will be administered in the following

p.t.o.

parts:-

- i) Loans to State Governments for being released to the affiliated colleges for construction of student hostels.
- ii) Loans to the universities and the affiliated colleges of the Delhi University for construction of student hostels.

Part (ii) above will cover the loans which are to be sanctioned to the union Territories Administrations for being re-loaned to the affiliated colleges.

4. The scheme has been included in the Fifth Five Year Plan (1974-79) with a total outlay of Rs. 20 lakhs. Under this scheme, loans will accordingly be sanctioned by the Government of India on a selective basis.

II - Scope

5. Barring the colleges belonging to the undermentioned categories, all colleges which are affiliated to, or are constituent members of the Universities, shall be eligible for assistance under this scheme:-

1. Teaching Training Colleges;
2. Physical Training Colleges;
3. Engineering and Technical Colleges;
4. Medical Colleges;
5. Agricultural Colleges; and
6. Any other types of professional colleges.

The colleges that receive assistance from the University Grants Commission for the construction of hostels shall not be considered for grant of loans under this scheme. In including this scheme in the Fifth Plan, the intention is to supplement the scheme of the University Grants Commission under which grants are payable to the affiliated colleges and will be implemented only to the extent that the colleges are unable to raise, either from within their own resources or through grant-in-aid from the State Governments concerned, matching contribution for a hostel building. The maximum amount of loan payable to a single college under this scheme shall not exceed Rs. 2.00 lakhs.

III - Procedure

6. Applications for financial assistance under this scheme shall be submitted to the eligible institutions to the State Governments concerned. All loans will be advanced to the State Government who shall reloan the amount to the individual colleges after obtaining suitable security and guarantee regarding repayment. For colleges situated in the Union Territories other than Delhi, applications will be submitted to the Local Administration concerned, but, in this case, the loans will be advanced to the colleges direct on the recommendations of the local Administration. In the case of Delhi Colleges, applications will be submitted through the University Grants Commission. It shall be the duty of the State Government/Local Administration/University Grants Commission to ensure that the loan instalments as well as interest charges are paid on the due dates by the colleges concerned in each financial year. The loan shall be sanctioned only after taking into consideration grants, if any, sanctioned by the Commission to the colleges on earlier occasions for the same purpose and their satisfactory utilisation, and also that the college has not submitted a request to the Commission for the same purpose simultaneously with the loan application sent to this Ministry.

7. Each State Government/Local Administration/University Grants Commission shall recommend to the Central Government the names of not more than two colleges for assistance under this scheme. In view of the limited allocation for this scheme, all the applications received shall be registered in the Union Ministry of Education and Social Welfare and loans shall be advanced in each financial year, from legal and financial points of view:-

- 1) It shall be ensured that the colleges concerned has the capacity under its Constitution and Memorandum of Association to raise the borrow money and to pledge its assets as security for the return of money.
- 2) Profit and loss (or income and expenditure) accounts for the last 3 years.
- 3) the main sources of income of the colleges and how it is proposed to repay the loan within the stipulated period;
- 4) the security to be offered for repayment of the loan together with a valuation of the security offered by an independent authority and a certificate that the asset offered as security is not already en-cumbered;

- 5) details of loan or loans taken from the Central Government in the past, rate of interest, stipulated period of repayment, date of original loan and amount outstanding against the loans on the date of the application and the assets, if any, given as security.
- 6) a complete list of all other loans outstanding on the date of application and the assets given as security of against them;
- 7) the purpose for which the loan is proposed to be utilised and the economics of the scheme;
- 8) the financial position of the college must be sound. The security offered is adequate and its value is at least 33-1/3% above the amount of the loan. If possible, an independent valuation should be obtained. It is not always sufficient to have what may be considered adequate security if the financial position of the applicant is not sound.
- 9) if the college produces an undertaking from the management or the trust that any shortfall towards repayment of the loan and interest will be made good by the latter, the financial position of the management, (or trust) should be investigated by calling for the aforesaid information in a like manner; and
- 10) It shall be ensured that as far as possible, the scheme for which the loan is given is self-binding and does not throw an additional burden on the general income of the institution e.g. in the case of college hostels rents proposed are adequate.

VII - Conditions of grant of loans

10. All loans sanctioned under this scheme shall be subject to the following conditions:-

- i) The maximum amount of loan to be sanctioned to a particular college shall not exceed Rs. 2 lakhs. Loans may be paid in full or in instalments, as the Central Government may decide. The final instalment of the loan will be released only after the hostel building is actually completed and the documents specified in (12) below are received in this Ministry.

- ii) The loan and/or each of its instalments shall bear interest at the borrowing rate of the Central Government prevalent at the time the loan is sanctioned.
- iii) The principal amount of the loan shall be repayable by the State Governments/Colleges in 13 equal annual instalments and the interest thereon shall be paid separately on the amount outstanding on the anniversary of the payment of the loan.
- iv) The first instalment in repayment of the loan shall fall due in the year following that in which the hostel is complete or in which the loan is disbursed to the institution, whichever is earlier.
- v) The college should intimate the enrolment figures for the three years preceding the date of application for the loan, and satisfy the Ministry that the construction of hostel for which the loan is sought is justified in the light of the existing hostel accommodation and the growing demand. Full details should be furnished.
- vi) The rates of construction to be adopted shall not be in excess of the schedule of rates of the PWD of the State concerned and a certificate to that effect shall be furnished by the Head of the college duly countersigned by the Head of the State PWD or his nominee concerned, at the time of applying for a loan. The detailed plans for hostel will be drawn up in accordance with the pattern approved by the University Grants Commission. No change will be allowed in the approved plan without the approval of the Ministry of Education and Social Welfare.
- vii) The head of the college shall ensure that hostel buildings are thrown open to inspection by the office of the State P.W.D. or of the C.P.W.D. or any other officers designated for the purpose by the Central or State Government or University Grants Commission both during the period of their construction as well as after the construction is completed. It shall be the duty of the head of the College to carry out any instructions which may be issued in this behalf by the Central Government or the State Government or the University Grants Commission as the case may be.
- viii) The college shall ensure that the execution by a person duly authorised in this behalf of an adequately stamped bond/mortgage deed in favour of the State Government concerned for the repayment of the moneys advanced and for the observance of these conditions. In the case of a college in a Union

Territory, the bond in question shall be executed in favour of the President and it shall be the duty of the authorities sanctioning the loan to ensure that the bond is adequately stamped, and otherwise valid and effective. The bond/deed shall be executed in respect of each of the instalments in which the loan amount is released.

- ix) A clause shall be inserted in the Agreement enabling Central or State Government or the University Grants Commission at any time to call for the accounts of the applicant relating to any accounting year with year to depute an officer, specially authorised for the purpose, to inspect the applicant's books for if necessary.
- x) A certificate shall also be furnished at the time of application that a site for the construction of a host has been acquired by the college concerned. No loan shall be sanctioned unless a site has already been acquired,
- xi) The buildings shall be completed as soon as possible and in any case not later than the close of the financial year following the one in which the first instalment of the loan is disbursed to the institution unless special extension is granted by the Government India.
- xii) After completion of the buildings, the State Government of the College shall furnish to the Central Government copies of the following documents:-
 - a) A certificate from State P.W.D. to the effect that the buildings have been completed in accordance with the approved plans and estimates and
 - b) A statement of expenditure incurred in the construction of buildings, duly audited by the authorised auditors.
- xiii) Any unspent portion of the loan shall be refunded to the Central Government at once.

Appendix to Item No. 2(b) (3)

Minutes of the meeting of the Joint Committee of All India Council for Technical Education and University Grants Commission held on 5th May, 1976 under the Chairmanship of Professor, Satish Chandra, Chairman, University Grants Commission, in his chamber.

The following were present :-

1. Prof. Satish Chandra Chairman
Chairman, University Grants Commission.
2. Prof. P.J. Madan, Member
'Vice-Chancellor,'
Baroda University.
3. Dr. B.S. Ramakrishna, Member
Indian Institute of Science,
Bangalore.
4. Dr. B.R. Seth Member
Director, Birla Institute of
Technology, Ranchi.
5. Shri H.S. Shahani, Member-Secretary
Joint Educational Adviser (T)
Ministry of Education & S.W.

Dr. U.S. Jha, Director, Indian Institute of Technology, Kharagpur and Coordinator of the Study Groups attended the meeting as a special invitee. Dr. A. Ramachandran, Secretary, Department of Science and Technology, New Delhi, Dr. P.K. Kelkar, Bombay, Shri Nenu Bhai Amin Baroda, Dr. S.M. Patil, Chairman, HMT Bangalore, Dr. Brahm Prakash, Director, Vikram Sarabhai Space Centre, Trivandrum and Dr. Krit Parikh, Indian Statistical Institute New Delhi, regretted their inability to attend.

The Joint Committee considered the report of the Study Groups, appointed by it, on the duration of the first engineering degree course in the light of the changed pattern of education at the Higher Secondary level (10+2) years system). The Committee agreed with the view of the Sub-Group that the question of duration of engineering course could have been best examined only after the basic goals on engineering education had been fully specified. However, in view of the urgency, the Committee noted that the Study Groups

have tried to examine the question to meet the situation arising out of the introduction of 10+2 system in some States. The Committee further noted that the Study Groups have examined the question of duration of the course at depth by examining alternative entry points, the Characteristics of the new pattern of education, different durations of the course, etc. etc.

2. After detailed discussions on the report of the Study Groups, the Committee made the following recommendations :-

- (i) In the light of uniform pattern of Secondary education and also a uniform pattern of higher secondary education (10+2), there should be a uniform pattern of first engineering degree course followed in all engineering colleges and institutions.
- (ii) When the new pattern of education (10+2) is adopted by all the States, the entry to the first degree programme in engineering should be after 12 years of schooling. The institutions may, however, develop criteria for entry at different levels for vocational streams of higher Secondary schools, for diploma holders of polytechnics and science degree holders. However, detailed guidelines should be laid down for the institutions which are likely to admit students at different levels.
- (iii) In view of the fact that the course content in Physics, Chemistry and Mathematics at +2 stage of higher secondary education as recently framed by NCERT are comparable to that of Inter Science subjects, the duration of the first degree course should be 4 years instead of 5 years. However, during the transitional period from 1976-77 to 1980-81, when both the 11 year higher secondary and the 12 year higher secondary courses will be existing in the country and also to the fact that at the initial stages laboratory facilities in sciences may not have been fully developed by those schools which have switched over to 10+2 system, the Committee

recommended that the engineering colleges/institutions which at present have 5 years programme should continue this programme upto 1980-81. These institutes may make admissions to the 5 year degree programme from both the systems (i.e. 11 years of higher secondary) and 12 years of higher secondary) in accordance with the existing procedures. After the admissions are made the students who have come from 10+2 systems of schooling may be given exemption from the first year course on the basis of the test conducted in the individual institutions. Thus, both the 4 year and 5 year programme will continue to run concurrently till 1979, and thereafter on the basis of the experience gained and also on the basis of the basic goals of engineering education which may be recommended by the Study Groups and accepted by the AITC India Council for Technical Education, the question of duration could be re-examined.

(iv) The Committee while generally endorsing the recommendation of the Sub-Groups to make one year industrial training compulsory after the successful completion of the first degree programme in engineering colleges/institutes, felt that this question be further examined and the whole mechanism for its implementation be carefully worked out. While it may be possible to obtain necessary training facilities for the engineering graduates and diploma holders in view of the amended Apprenticeship Act, the question of well-supervised training programmes for all the graduates and diploma holders needs careful study. The Committee strongly felt that unless the training programme is well-organised, it would not produce the desired result.

(v) The Committee felt that the future task before the institutions currently giving a 5 year programme is to undertake the formulation of a broad curriculum and syllabi for the 4 year degree programme in all major disciplines of engineering and technology. The Committee noted that the Q.I.P. Curriculum Development Centre at the University of Roorkee has already published model curriculum for 4 year engineering degree courses in some fields and the work is in progress on preparation of 4 year curricula in other fields. The Committee desired that this information may be brought to the notice of all the institutions so that they could evolve the curricula to suit their requirements. After the curricula has been developed by various institutions, the Joint Committee may examine the various curricula so developed and advise the institutions.

CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22nd September, 1976.

Item No. 2(c): To receive the statement of proposals which could not be accepted by the Commission :-

- (1) Proposal of Colleges which have not been accepted under Rs. 5 lakhs Scheme.

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The following proposals of colleges have not been approved for financial assistance under Rs. 5 lakh scheme during Fifth five year Plan period due to nonfulfilment of the eligibility conditions of minimum enrolment and faculty strength :-

S.No.	Name of the college	Project	Estimated Cost	Date of order	Reason
<u>UTKAL UNIVERSITY</u>					
1.	Women's College Balasore	Students' Hostel	3,30,000	28.2.76	Low enrolme
2.	KBDV college, Nirakarpur	Lab. & Library Building	1,84,000/-	1. 5.76	-do-
		N.R.S.C.	30,000/-	"	-do-
		Staff Qr.	1,03,540/-	"	-do-
		Ladies Hostel	2,04,000/-	"	-do-
		Workshop & Equip.	61,000/-	"	-do-
<u>SAMBALPUR UNIVERSITY</u>					
3.	S.K.D.A.V. College, for Women, Rourkela	Books	60,000/-	19.4.76	Low faculty Strength
		Equipment	40,000/-	"	-do-
4.	Govt. College, Sundergarh	Books & Equip.	1,80,000/-	6.5.76	-do-
		Staff Qrs.	3,30,000/-	"	-do-
		Books & equipment	2,66,666/-	"	-do-

5.	Anchal College, Padampur	Laboratory building	1,44,600/-	2.2.76	Low enrolment
6.	Laxminarayan College, Jharsuguda	Lab equipment and Furniture	1,08,600/-	12.7.76	-do-
		Staff Quarters	9,65,000/-	"	-do-
7.		Principals Quarter	79,600/-	"	-do-
		Books & Journals	32,000/-	"	-do-
7.	Kuchinda College, Kuchinda.	Equipment	2,28,000/-	26.8.76	-do-
		Books and Journals	10,000/-	"	-do-

MAGADH UNIVERSITY

8.	Sri Guru Govind Singh College, Patna City.	Extension of teaching accommodation and Books & Journals	7,08,416/-	2.7.76	-do-
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NORTH BENGAL UNIVERSITY

9.	Malda Women's College, Malda	Construction of Women's Hostel	2,86,068/-	9.7.76	Due to low faculty strength & enrolment.
		Books	30,000/-	"	

CALCUTTA UNIVERSITY

10.	Sowa Bharti Mahavidyalaya Kopgari	Extension of Women's Hostel	1,41,110/-	"	Due to low faculty strength.
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NORTH EASTERN HILL UNIVERSITY

11.	Synod College, Shillong.	Const. of college Building, Laboratories, Lecture-Theatres, hostel and Adminis- trative Block.	21,42,600/-	9.8.76	-do-
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GAUHATI UNIVERSITY

12.	Thoubal College, Thoubal.	Const. of Class Rooms.	2,99,110/-	16.8.76	Due to low faculty strength & enrolment.
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Meerut University

13.	Ch.Chhotu Ram Degree College, Muzaffarnagar.	Workshop Building, Books Equipment Class Room	Rs.5,15,000/- 21.6.76	Condition of minimum No. of students.
14.	Kalpi College, Kalpi	Addl. Class Rooms	Rs.6,07,200/- 24.7.76	Condition of minimum No. of students & Staff strength.
15.	Govt. Degree College, Jaiharikhal	Workshop Hostel Books & Equipment	Rs.3,05,000/- 20.7.76	-do-
16.	J.S. Degree College, Sikandrabad.	Staff Quarters Class Rooms	Rs.3,24,477/- 19.8.76	IVth Plan Projects not completed.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22nd September, 1976

Item No.3 : To approve the statement of grants released after the last meeting of the Commission held on 23rd August, 1976.

S.No.	Name of University/ Affiliated Colleges	Subject	Instalment	Amount
1.	<u>Agra University</u>			
		Vith Annual Meeting of the Indian Academy of Cytologists 9-10 Oct., 1976.		3,000
		Junior Research Fellowship in Humanities including Social Sciences allocation of funds for implementation of the Scheme during 1976-77	IIInd	66,000
	<u>Affiliated Colleges</u>			
	Agra College, Agra	Junior Research Fellowships in Science-payment of Fellowship		2,993.95
	U.P. College of Veterinary Sce. and Animal Husbandry, Mathura.	Utilisation of services of outstanding retired teachers-Payment of Grant in respect of Dr. Inder Gupta.		9,000
	St. John College Agra.	-do-		8,580.65
	B.S.A. College, Mathura. U.P.	Basic grant for the development of postgraduate studies in Science Purchase of library books and journals.	Ist	10,000
	Garjdandwara College, Garjdandwara.	Grants to affiliated colleges for the development of undergraduate facilities during the Vth Plan period.	Ist	50,000
	S.N.Medical College, Agra.	Grant towards the loan of books to students-setting up of books banks.	Ist	8,437
	J.S.Hindu college, Almora.	Grants to affiliated colleges for the establishment of Book Banks release of 2nd instalment of grant.		2,813
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Total -				1,60,824-60
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p.t.o.

1	2	3	4	5
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2. Aligarh Muslim University

Removal of water logging from JN Medical Vith college-Construction of Kuchha flood Tank	2,500
Utilisation of Services of Outstanding retired Teachers payment of grant.	8,750
Installation of a lift in the building of faculty.	5,000
Unassigned grant for the year 1976-77	15,000
Additional Library facilities in the university polytechnic.	10,000
Award of teachers Fellowship to Shri Ram Gopal Varshney Lecturer in Analytical	4,000
Purchase of furniture during 5th Plan period Womens College.	5,000
Purchase of equipment for Fine Arts Science and Psychology Laboratory Women College.	12,500
Purchase of books and Journals during 5th Plan period- Women College.	7,500
Purchase of Furniture for Common Rooms, Crockery and Indoor Games under Students Amenities Programme.	35,000
Part time Degree Course in Engineering for diploma holders	25,000
Junior Research Fellowship in Science/ Humanities including Social Sciences- Allocation of Funds for implementation of the Scheme during 76-77.	91,000
Development of Area studies programme- Contingent grant.	1,000

Affiliated Colleges

Gandhi Eye Hospital, Aligarh.	Writing of university level books	900
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Total 2,23,150

3. Allahabad University

Junior Research Fellowship in Sce. Humanities including Social Sciences allocation of funds for implementation of the scheme during 76-77.	77,000
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Total - 77,000

1	2	3	4	5
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4. Andhra University, Andhra

Organisation of Refresher Course for teachers of Economics in the affiliated colleges, in the Andhra University, Area.	Ist	12,000
UGC Assistance for the project entitled Dielectric properties of Polymers solid state & solutions.		11,500
Establishment of Health Centre-Andhra University		40,000
Payment of grant.		
Junior Research Fellowship in Science/Humanities including Social Sciences-Allocation of funds for implementation of the scheme during 76-77.		97,000
-do-		2,000
-do-		722.58
UGC Assistance for the research project entitled "Genetic Mapping of Mutetant Phenotypes and Sytochemistry		3,000
A Seminar on Challenge of poverty and Social Work Education.		10,120
Financial Assistance for the Development of Museum and Audio-Visual Aids in the Universities.		10,000
Utilisation of services of outstanding retired teachers- payment of grant		8,750

Affiliated Colleges

Andhra University

Andhra Medical College, Vishakhapatnam (A.P.)	Utilisation of Services of outstanding retired teachers- payment grant of	9,000
P.S. Govt. College, Sankinada.	Financial Assistance to Teachers for research/learned work in Humanities and Social Sciences - payment of second instalment of grant.	500
Andhra Lutheran College, of Education, Guntur.	Construction of Library, Laboratory and Non Resident Students Centre Building.	Ist 95,000

Total	2,99,598-58
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Annamalai University

Junior Research Fellowship in Science/Humanities including Social Sciences-allocation of Funds for implementation of scheme during 76-77.	IIInd	43,000
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p.t.o.

Annemalai University Contd.

Development Schemes under Plan Period	7,500
-do-	10,000
Seminar on Problems of Fertility Control in India	12,006
Utilisation of services of outstanding retired teachers payment of grant in r/o Thiru V.S. Gomathisankara Aiyer.	1,500
-do-	9,000
-do-	8,750
Seminar on Dravidian Tribal Languages.	9,005
Advanced symposium on probability Theory and its applications.	4,73.59
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Total	10,05,500.59
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6. A.P. Singh University.

Allocation of unassigned grant during 75-76 release of grant for.	15,000
-do-	13,500
Junior Research Fellowship in Humanities allocation of funds for implementation of the Scheme during 76-77.	Ind. 7,000

Affiliated Colleges

Grants to affiliated colleges for loan of books to students - Book Bank grant sanction of II and Final Instalment.	1,500
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Total	37,000
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7. Bangalore University

UGC Assistance for the Research Project entitled Paleobotanical studies of certain Gondwana stata by Dr. S.N. Agashe, Deptt. of Botany.	8,000
-do- Mossbauer Effect study of Binary Alloys.	21,043
Junior Research Fellowship in Science/Humanities including Social Sciences-Allocation of Funds for implementation of the scheme during 1976-77. II nd Instlment.	44,000

p.t.o.

Bangalore University Contd.

Organisation of Summer Institute in English Language teaching for College/University teachers 1976.	10,000
College Science Improvement Programme-University Leadership Project in Mathematics-Fellowship activities.	40,000
UGC Assistance for the research project entitled Neurochemical correlates of allexandibetes- release of 1st Instalment.	5,000
Proposal for the development of Engineering Ist & Technology in the U.V.C.E. during the fifth Plan period. Purchase of Lib. Books.	3,00,000
-do- Ist	8,00,000
Development Scheme under V Plan Period unassigned grant for the 75-76.	20,000

Affiliated Colleges, Bangalore University

Grants towards the loan of Books to students setting up of Book Banks.	4,500
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Total-	12,52,543
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8. Banaras Hindu University

Recurring grant for setting up employment information cum advisory Bureau IV Plan.	20,538.49
Utilisation of services of outstanding retired teachers Payment of grant .	2,000
Boring a Tube Well and providing V.T. or sub main pumping set at chairagaon Rural Health Centre of Institute of Medical Sciences.	10,000
Pay of staff under Development of Department of Psychintry	IIInd 38,000
National Associateship Scheme	Final 249.50
Programme of Special Assistance to Selected Departments- Department of Maettalurgy- Release of on account grant regarding additions/alternations modernisation of existing Labs/Libraries.	50,000

p. t. o.

Banaras Hindu University Contd.

First an All India Call Biology Conference in Jan 77.	5,000
Research Fellowship in Engg. & Tech.	900
-do-	900
Research Fellowship in Science- Payment of Contingencies.	2,000
Junior Research Fellowship in Science Allocation of Funds for implementation of the Scheme during 1976-77 IIInd Instalment.	1,32,000
UGC Assistance for the Research project entitled Collular Proliforation and Hypertrophy in Developing Brain.	10,000
Recurring Grant for the Centre of Study of State Govt. in the Political Science Department under Fifth Plan.	3,54,546
Total	2,75,133.45

9. Bhagalpur University

Grant in aid towards the Insulation and Air Conditioning of Culture room, Postgraduate department of Botany.	Ist	10,000
-do-	Ist	8,000
-do-	Ist	10,000
-do-	Ist	8,000
Junior Research Fellowship in Humanities including Social Sciences- Allocation of Funds for implementation of the Schems during 1976-77.	IIInd	11,000
Total		47,000

10. Bhopal University Bhopal

Junior Research Fellowship in Science Allocation of Funds for implementation of the scheme during 76-77	IIInd	7,000	
<u>Affiliated Colleges,</u>			
<u>Bhopal University</u>			
Gandhi Medical College, Bhopal.	Grants to Colleges Libraries for loan of books to students (Book Banks)	Ist	8,000
M.A. College of Tech. Bhopal	-do-	Ist	12,000
Total -			27,000

11. Bihar University, Muzaffarpur

Junior Research Fellowship in Humanities including Social Sciences- Allocation of funds for implementation of the Scheme during 76-77. Ind 21,900

Total - 21,000

12. Berhampur University, Berhampur

Financial Assistance to Teachers for Research work in Science-payment of Second Instalment of grant.		1,000
UGC Assistance for the research project.		15,600
Junior Research Fellowship in Humanities including Social Sciences- Allocation of Funds	Ind	10,000
Pruchase of Library books & Journals for the Department of Science & Humanities during Vth Plan		73,406.02
UGC Assistance for the Research Project		4,800
-do-		4,800
Construction of Extension to Humanities Block- Berhampur University 5th Plan	Final	24,000
Construction of Health Centre-IV Plan		17,331
Award of Teacher Fellowship to Shri Maruvada Durga Prasada Rao, Lecturer in hemistry, Berhampur University		3,550.00

Affiliated Colleges, Berhampur University

Havenshah College, Cuttuck	Award of TEACHER Fellowship to Smt.D.V.Alka		3,346
Ranchandra Mardaraj Science College, Orissa.	Grant for setting up of Book Banks.	Ist.	4,500
Ganjan College, Orissa.	-do-	Ist	4,500
H.S.College, Orissa	-do-	Ist	2,000
Khallikote College, Orissa.	-do-	Ist	5,500
D.A.V.College,	-do-	Ist	2,000
-do-	Setting up of Book Bank in College.	final	4,000

Total 1,79,733-02

13. B.N. Chakrabarti University

Junior Research Fellowship in Humanities including Social Science-Allocation of funds.	IInd	₹ 2,000
-do-	"	49,000
Unassigned grant for the year 76-77 for UGC Unit.		9,000
UGC assistance for the research project.		4,800
-do		3,600
Award of Teacher Fellowship to Shri M.L.Gupta.		3,016.10

Affiliated Colleges

Kamla Nehru College, Haryana.	Grants towards the loan of books to students setting up of Book banks.	Ist	5,625
Arya Girls College, Calcutta.	-do-	"	2,812
Makand Lal National College, Haryana.	-do-		7,031
Guru Nanak Khalan College, Haryana.	-do-		4,219
Vaish College, Haryana	Purchase of Books and Journals.	Ist	15,000.
JVMCRR College, Haryana-	Construction of Library Building	Ist	15,000
-do-	Purchase of Books and Journals	Ist	15,000
Ghaju Ram Memorial Jat College, Haryana.	-do-	Ist	10,000
Dev Samaj College, for Girls Haryana.	Construction of additional teaching accommodation (six class rooms)	Ist	30,000

Total - 2,06,103-1

14. Bombay University, Bombay

Junior Research Fellowship in Science Humanities including Social Sciences allocation of funds for implementation of Scheme during 1976.	IInd	1,15,000
-do-		77,000
Non-recurring grant for additional facilities for P.G. Courses at the University Department of Chemical Tech.	%rd.	7,800
UGC Assistance for PG Course in Chemical Engg. and Chem. Tech. - Fellowship.		12,430

p. t. o.

Bombay University Contd.

UGC aid for P.G. Courses in Chemical Engineering and Chemical Tech.		12,430
-do-		60,800
Support for advanced research in the Humanities and Social Science.		10,000
Grant in aid for P.G. Courses in Chemical Engg. and Chemical Technology.		2,70,000
College Science Improvement Programme- University Leadership Project in Mathematics		1,00,000
Utilisation of services of outstanding retired teachers payment of grant in respect of Dr. V.N.		8,750

Affiliated College, Bombay University

Ephinstone College, Bombay.	-do-		1,112.91
Ismail Usuf College, Bombay.	-do-		8,024.19
Sannarain College, Bombay.	-do-		9,000
Ephinstone College, Bombay.	Support for advanced research in the Humanities and Social Sciences.	Ist	3,600
S.P.C. of Engg. Bombay.	Writing of University level books		10,218.48
Sri Chinai College of Commerce & Economics	Students Aid Fund in the colleges for 75-76		1,750

Total 7,07,915.58

15. Bundelkhand University, JhansiAffiliated Colleges.

Bipin Bihari College, Jhansi	Fifth Five Year Plan -Improvement of Undergraduate educational facilities.	Ist	20,000
-do-	-do-	"	10,000
		Total -	30,000

16. Burdwan University, Burdwan.

Junior Research Fellowship in Humanities including Social Sciences- Allocation of funds.	IInd	33,000
Grant in aid towards extension lecturers Seminars.etc.	Ist	25,000
UGC Assistance for the Research work.		27,500
Aid towards the construction of a Store Room "		5,000

p. t. o.

University of Burdwan Contd.

<u>Affiliated Colleges.</u>	UGC Assistance for the research project.	9,800
Rampur Hat College, Distt. Birbhum	Grant for setting up book bank.	20,000
Aghorekamini Parkash Chandira Mahavidyalaya, Bengal.	-do-	8,000

Total 12,28,300

17. Calcutta University

	UGC Assistance for the research project	4,800
	Grant in aid towards implementation of NSS in Universities 76-77	12,000
	Junior Research Fellowships in Science Humanities including Social Sciences research Fellowship.	4,800
	-do-	1,32,000
	-do-	3,866.67
	UGC Assistance for the Research Proj.	6,000
	Financial Assistance for the Development of Museum and Audio-Visual Aids.	10,000
	Support for Advanced Research in the Humanities and Social Sciences.	2,000
	UGC Assistance for the research project.	10,000
	-do-	9,000
	-do-	12,000
	-do-	7,000
	International symposium of Charosomes	12,500
	National Associateship Scheme	1,000
	International Symposia on Advanced Maths.	10,000

Affiliated Colleges.

S.C. College,	Financial Assistance to Teachers for Research learned work in Humanities and Social Sciences	1,500
	Payment of second instalment of grant.	

Calcutta Univ. (Contd.)

Kusutosh College, Calcutta.	Utilisation of services of outstanding retired teachers-Payment of grant in respect of Dr. T.P. Bhattacharjee.	-	1996-23
Ramakrishna Mission Residential College, 24-Parganas.	-do- Dr. R.L. Nath.	-	2000-00
New Alipore College, Calcutta.	Establishment of Text Book Library in the Colleges- Release of Final instalment.	Final.	597-00
Bhairab Ganguly College, Calcutta.	Grant for setting up of Book Banks.	Ist.	8000-00
J.C.T. College, Murshidabad.	-do-	Ist.	5500-00
Behala College, Calcutta.	-do-	Ist.	5500-00
	Total:		<u>2,62,059.90</u>

18. Calicut University.

	Junior Research Fellowships in Humanities including Social Sciences- Allocation of funds for implementation of the scheme during 1976-77.	II	10000-00
	Grant in-aid for the purchase of Equipment for Science faculty Vth Plan period.	-	6,42000-00
	Grant-in-aid for the purchase of Books and Journals (Humanities) Vth Plan period.	-	3,00000-00
	Grant-in-aid for the purchase of books and Journals for Science Faculty-Vth Plan.	-	3,96000-00
	Appointment of Teaching Staff-Science Faculty.	-	1720-00
	Construction of Radiation Research Lab., for the physics department- Payment of grant for the.	-	40,000-00
	Utilisation of services of outstanding retired teachers-payment of grant in respect of Prof. P S. Krishnan.	-	9074-00
<u>Affiliated Colleges.</u>			
N.S.S. College of Engineering, Palghat.	Grant towards the loan of books to students- setting up of Book Banks.	Ist.	8000-00
Farook College, Farook. Calicut.	-do-	Ist	3250-00
-do-	Construction of Gyanasium.	Final	3785-00
	Total:		<u>14,13,829-00</u>

19. Cochin University.

U.G.C. Assistance for the research project entitled "Water characteristics and current structure in the intertropical Indian Ocean" by Dr. G.S. Sharma, Deptt. of Marine Science.	-	5,000-00
Construction of Central Library Building.	-	50,000-00
J.R.F. in Humanities including Social Scs.	Ist	7,000-00
	Total:	<u>62,000.00</u>

20. Delhi University.

U.G.C. Assistance for the research project "Synthesis of some Nitrogen Heterocycles and their electrochemical and Pharmacological studies". Prof. G.S. Saharia, Deptt. of Chemistry.	Ist	6,000-00
-do-	-	5,000-00
-do-	III	7,300-00
Indo-Bulgarian C.E.P. Mr. E.V. Stovanov. Utilisation of services of outstanding retired Teachers. Prof. Raj Kumar.	-	2,734-50
U.G.C. Assistance for research Project. Support for advanced research in the Humanities and Social Sciences.	II	433-05
-do-	II	9,600-00
-do-	III	5,000-00
U.G.C. Assistance for Research Project. S.R.F. in Science/Humanities. Dr. S.K. Gupta.	-	3,300-00
Financial assistance to teachers in University for research work.	-	1,20,000-00
International conference on Frontiers of Theoretical Physics.	-	2,000-00
Payment of Plan grant during 1976-77.	II	10,000-00
Construction of a building for housing in the University Engineering Stores etc.	-	4,00,000-00
J.R.F. in Science /Humanities .	-	9,137-00
U.G.C. Assistance for the research project- Organisation of workshop on Post-graduate syllabus of Urdu and Internal assessment.	-	4,800-00
Utilisation of services of outstanding retired teachers- Payment of grant.	-	50,000-00
J.R.F. in Humanities including Social Scs.	-	9,130-00
	-	6,637-10
	-	2,76,000-00

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Delhi University(Contd.)
Affiliated Colleges.

Largi College, New Delhi.	Construction of College Building.	-	2,00,000-00
Lakshmi Bai College, Delhi.	Financial assistance to teachers for Research work.	II	300-00
Rajdhani College, Virti Nagar.	Purchase of Library furniture and fittings fixtures.	-	2,244-38
Lady Shri Ram College for Women, New Delhi.	Extension to canteen Block under the extended colleges scheme.	-	15,956-26
P.G.D.A.V. College, Vehru Nagar.	Purchase of Library Books for B.A.(Pass) Political Science.	-	5,000-00
Lady Shri Ram College for Women, New Delhi.	Extension of Library block under the Extended colleges scheme.	-	11,530-51
Deshbandhu College (Day) Kalkaji.	Purchase of Library Books for B.Com.(Hons.)	-	1,500-00
-do-	Purchase of Library Books for M.A.(Eco.)	-	10,000-00
I.P. College for Women, Delhi.	Purchase of Library stacks.	-	10,250-02
-do-	Purchase of Typewriter.	-	2,230-17
Miranda House, Delhi.	Construction of Science Block.	-	3,004-42
Delhi School of Social work, Delhi.	Purchase of A New Duplicating Machine.	-	32-45
Sri Venkateswara College, Dhaura Kuan, New Delhi.	National Associateship Scheme-Dr.Y.K.Bhoon.	-	102-16
Ramjas College, Delhi.	Setting up of Books Bank.	-	14,062-00
M.A.M. College, New Delhi.	-do-	-	11,250-00
Janki Devi Mahavidyalya, Poorvi Marg, New Delhi.	-do-	-	4,687-93

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Delhi Univ. Afftd. Colleges. (Contd.)

S.L. College (Eve.) Shahadara.	Setting up of Book Banks.	-	11,250-00
Delhi College of Engg. Delhi.	-do-	-	11,250-00
Central Instt. of Edu., Delhi.	-do-	-	7,500-00
Total:			<u>12,52,821.95</u>

21. Dibrugarh University.

	Financial assistance for the Development of Museum and Audio-Visual Aids in the University.	-	20,000-00
	J.R.F. in Humanities during 1976-77.	II	21,000-00
<u>Affiliated Colleges.</u>			
D.H.S.K. College, Dibrugarh.	Utilisation of services of outstanding retired teachers- Dr. T.K. Krishnaswamy Aiyar.	-	7,879-02
Sibsagar Girls College, Sibsagar.	Construction of Women's Hostel.	-	1,680-51
D.K.D. College, Dergaon. Assam.	Establishment of Book Bank in Colleges.	-	1,500-00
Total:			<u>52,059-54</u>

22.

Cauhati University.

	J.R.F. in Humanities during 1976-77.	II	33,000-00
	Construction of Chemistry Building.	Ist	1,50,000-00
	Construction of Science Block No. IV.	Ist.	1,50,000-00
	Construction of Science Block No. V.	Ist.	1,50,000-00
	Construction of addition Physics Building.	II	30,000-00
<u>Affiliated Colleges.</u>			
J.L.N. College, Pasighat.	Construction of Staff Quarters, Library Building, Principal Bungalow and Cycle-shed.	II	50,000-00
Total:			<u>5,63,000-00</u>

3. Gorakhpur University.

U.G.C. Assistance for Research Project.	-	6,300-00
J.R.F. in Humanities & Science during 1976-77.	II	32,000-00
J.R.F. in Science during 1976-77.	II	21,000-00
Writing of University level books.	-	3,320-00
U.G.C. Assistance for Research Project.	-	9,800-00
Utilisation service. of retired teachers- Dr. R.B. Singh.	-	8,483-87

Affiliated Colleges.

Satish Chandra College, Baliga.	Basic grant for the development of P.G. studies in Science-Purchase of Lib.Books.	Ist.	10,000-00
S.M.M.T.D. College, Baliga.	Construction of Gymnasium.	6th	4,000-00
G.D.D. Mahavidyalya,	Setting up of Book Bank.	IIrd	1,875-00
			<hr/>
		Total:	<u>96,778.87</u>

24. Gujarat University.

J.R.F. in Science during 1976-77.	II	50,000-00
J.R.F. in Humanities during 1976-77.	II	33,000-00
Unassigned grant and grant for UGC Unit.	Ist	16,500-00
J.R.F. in Science/Humanities -Payment of contingency grant to Dr.(Mrs.)N.G.Dave.	-	2,000-00
Utilisation of services of outstanding retired teachers. Dr. J.J. Chindy.	-	7,982-14
Purchase of Equipment for Chemistry and Microbiology Department against the Vth Plan.	-	2,00,000-00

Affiliated Colleges.

B.D. Shah College of Education, Modasa.	Setting up of Book Banks.	Ist	4,500-00
Gujarat College, Ahmedabad.	Utilisation of services of outstanding retired teachers- Dr. M.A.H. Farooqi.	-	1,000-00
-do-	Development of Play field and purchase of Accessories for games & sports.	Final.	922-00
		Total:	<u>2,15,964.14</u>

25. Guru Nanak University.

	J.R.F. in Science during 1976-77.	II	10,000-00
	J.R.F. in Humanities during 1976-77	II	7,000-00
	Seminar on Analysis of Literature.	-	8,913-00
	Salaries of staff for the Health Centre during Vth Plan period.	-	5,000-00
<u>Affiliated Colleges.</u>			
D.A.V. College, Bathinda.	Setting up of Book Banks.	Ist	8,437-00
B.U.C. College, Batala.	College Humanities and Social Sciences Development programme.	-	17,539-00
		Total:	<u>56,889.00</u>

26. H.P. University.

	J.R.F. in Science during 1976-77.	II	10,000-00
	J.R.F. in Humanities during 1976-77.	VI	7,000-00
<u>Affiliated College.</u>			
Govt. College, Chamba. (H.P)	Setting up of Book Banks.	Ist.	5,625-00
		Total:	<u>22,625.00</u>

27. I.K.S. Vishwavidyalaya.

	Purchase of Equipment for Painting Deptt.	-	50,000-00
	Purchase of Equipment for Sound Laboratory.	-	10,000-00
		Total:	<u>60,000 -00</u>

28. Indore University.

	J.R.F. in Science during 1976-77	II	32,000-00
	J.R.F. in Humanities during 1976-77.	II	21,000-00
	IVth Annual Meeting of the Indian Immunology Society.	-	3,000-00
	XVII Annual Conference of Indian Society of Gastroenterology.	-	5,000-00
	Examination Reform Programme.	-	3,000-00
	Salary of Staff appointed during Vth Plan.	-	1,00,000-00
<u>Affl. College.</u>			
M.G.M. College, Indore.	Setting up of Book Banks.	-	12,000-00
		Total:	<u>1,76,000-00</u>

29. University of Jabalpur

Implementation of continuing Education Programme -Sanction of grant.	Rs.5,000
Allocation of UGC Unit during 1976-77 unassigned grant-Release of grant for.	6,000
Junior Research Fellowships in Science/Humanities including Social Sciences/Research Fellowship	1,500
Junior Research Fellowship/Humanities including Social Sciences.	33,000
-do-	50,000

Total 95,500

30. Jadavpur University

U.G.C. Assistance for the research project.	10,000
Junior Research Fellowship in Humanities including Social Sciences	IIInd 33,000
-do-	IIInd 50,000
U.G.C. Assistance for the research project.	8,400
Visit of Dr. A.K. Ghosh, Lecturer in Math.	1,132
Writing of university level books	1,091-68
Grant in aid towards the Award of Research Studentships to the Students of M.Sc.	5,400
-do-	12,600
Construction of Post-graduate Arts Building	Final 621
Jadavpur University 2nd Plan scheme	
UGC Assistance for the Research project entitled Kinetics of the oxidation of soke organic compounds by complexions derived from rare platinum metals	4,000
Development of AREA Studies Programme Purchase of equipment	6,883.80

Total - 1,33,128.48

31. JAMJU UNIVERSITY

Junior Research Fellowship in Humanities including Social Sciences-Allocation of funds for implementation of the Scheme during 76-77.	IIInd 22,000
-do-	IIInd 33,000

Total 55,000

32. Jawaharlal Nehru University

Constr. of Hostel Blocks for 800 students.	4,00,000
Autumn Institute for Teachers of German under Item 4 of Indo-FRG.	7,368
IV Triennial Conference of the Association for Common wealth Literature and Languages.	13,200
Senior Research Fellowships in Science.	1,221.13
Utilisation of Service of O/S retired Teachers	9,000
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	4,30,789.13
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33. J.N.U. Tech. Univ-ersity, Warangal.

University Grants Assistance for the research Project.	11,800
-do-	34,800
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Total	46,600
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34. Jiwaji University, Gwalior.

Junior Research Fellowship in Humanities including Social Science.	IIInd	21,000
-do-	"	32,000
		<hr/>
Total		53,000
		<hr/>

35. Jodhpur University

Junior Research Fellowship in Humanities.		21,000
-do-		32,000

Jodhpur University Contd.

Senior Research Fellowships in Humanities	4,800
Basic grant for purchase of library books and journals	50,000
Utilisation of services of o/s retired teachers.	8,483.87
Establishment of Students Aid fund in Universities	25,000
Allocation of unassigned grant and grant for UGC unit.	13,500
UGC Assistance for the research project.	7,300
-do-	18,200
-do-	4,800
-do-	15,000
-do-	3,000

Total 2,03,083.87

Kalyani Univ-ersity

Junior Research Fellowship in Humanities.	21,000
-do-	32,000
Grant in aid for the construction of a building for the Education Department.	Ist 50,000
-do-	Ist 3,75,000
-do-	Ist 30,000
Construction of Guest House-cum-staff club during Vth Plan period-	Ist 50,000
UGC Assistance for the Research project.	10,000

Total 5,68,000

37. Kanpur University

Junior Research Fellowship in Humanities including Social Science .	21,000
-do-	32,000

Affiliated Colleges.

L.Y.D. College, Farrukhabad.	Grant towards the loan of books to students.	Ist 4,500
C.S.N. College,	-do-	Ist 16,875
L.Y.D. College,	-do-	14,062
	-do-	Ist 4,500

p.t.o.

Affiliated College, Kanpur University Contd.

R.M. Degree College, Kanpur	Assistance to Colleges for construction of Class Rooms.	9th	20,000
PPN College, Kanpur	UGC Assistance for the Research Work.	Ist	37,000
Janta Mahavidyalaya, Etawah.	Construction of Teachers Hostel	5th	5,000
C.S. Nehru College, Hardoi.	Grants to affiliated colleges for the development of undergraduates educational facilities during the 5th Plan.	Ist	20,000
C.S. Nehru College, Hardoi	Settingup of Book Bank Scheme.	Final	3,250
S.D. Technological Institute. Kanpur.	Research Fellowship in Engineering & Tech.		1,000
A.D. College, Atra U.P.	Establishment of Book Bank.	Final	3,750
D.B.S. College, Kanpur.	-do-	Final	4,750
<hr/>			Total. 187,687

38. Kashmir University, Srinagar.

	Junior Research Fellowship in Humanities including Social Sciences.		22,000
	-do-		33,000
<u>Affiliated College, Kashmir University</u>			
A.S. College, Srinagar.	Utilisation of Services of C/S retired Teachers.		8,000
-do-	-do-		2,000
Govt. College, of Education. Srinagar.	Financial Assistance to teachers in universities and colleges .	Ist	2,500
<hr/>			Total 67,500

39. Kashi Vidya Pith, Varanasi

Junior Research Fellowship in humanities. IIInd 55,000

55,000

40. K.Darbhangra Sanskrit University

Junior Research Fellowship in Humanities. II 8,000

8,000

41. Karnatak University, Dharwar.

Support for advanced Research in Humanities. Final 1,537.80

Junior Research Fellowship in Humanities. IIInd 52,000

-do- IIInd 79,000

29th All India oriental Conference release of grant. 2,000

UGC Assistance for the research project. 4,800

Studentship of the value of Rs. 250/- 10,000

Affiliated Colleges.

Govt. College, Gulbarga. College Science Improvement programme. Ist 80,000

2,29,337.80

42. Kerala University, Trivandrum.

Support for advanced research in the Humanities. 7,000

Organisation of Summer Institute in English. 15,000

Space Science and its applications-expenditure 35,000

Higher Education and Research Development Scheme 20,000

UGC Assistance for the research project 16,000

Junior Research Fellowship in Humanities IIInd 74,000

-do- IIInd 1,12,000

Affiliated Colleges.

Vinla College, Truchur. Utilisation of services of o/s retired teachers 9,000

University College, Trichur. -do- 7,975.81

Vinla College, Trichur. -do- 2,000

Affiliated Colleges Kerala University Contd.

B.M. College, Kerala.	Construction of Men Hostels.	10,000
Vimla College, Trichur.	Improvement of Undergraduate Educational facilities.	3,000
St. Thomas College, Ernaculam	College Science Improvement Programme.	Ist 80,000
A.C. for Women Palai Kerala	Teaching Accommodations (extension) Fifth Plan Development Schemes.	20,000

3,12,795-81

43. Kumaon University
Affiliated Colleges.

Utilisation of services of o/s retired teachers.	9,000
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9,000

44. L.N.Mithila University

Affiliated Colleges.

A.N. D. College, Bihar.	Grant for setting up book Banks	Ist 2,000
T.P. College, Bihar.	Construction of Science Block.	7th 20,000

22,000

45. Lucknow University

Junior Research Fellowships in humanities.	4,800
-do-	2nd 77,000
-do-	1,15,000
-do-	2,000
Utilisation of Services of o/s retired teachers	
payment of grant in r/o Dr. Rameshwar.	8,750
Examination Reform Programme-Organisation of a three days seminar.	10,000
Visit of Dr. PP Rastogi, Lecturer to U.K.	9,937

2,27,487

Madras University, Madras.

UGC Assistance for the research project		4,800
-do-		10,000
Junior Research Fellowship in Humanities	2nd	1,30,000
-do-	2nd	1,97,000
-do-		196.55
Programme of Special Assistance to Select Departments -Department of Physical Chemistry		10,000
UGC Assistance for the research project		20,000
Utilisation of services of O/S retired teachers		9,000
Establishment of an Examination Reform		10,000
Development Schemes under- Plan period.	IIIrd	1,838
Centre of Advanced Study in Philosophy		30,000

University of Madras.

Affiliated Colleges. Grants towards the loan of Books to studentsMadras University

College of Engg. Madras.	Grants towards the loan of Books to students	Ist	14,000
R.E.College, Tiruchirpalli	-do-	Ist	11,250
M.C.C. Madras	-do-	Ist	14,000
P.S.C. Arts College, National College Tiruchirapalli.	-do-	Ist	7,000
M.L.College, Madras	-do-	Ist	11,250
KK.College, Selen	-do-	Ist	16,875
P.S.G.R. Coimbatore.	-do-	Ist	4,200
St. C.T.College, Madras	-do-	Ist	4,200
P.S.C.College, Combatorc.	-do-	Ist	4,500
Stella Maris College, Madras.	-do-	Ist	11,250
R.K.M.V.T.College, Coimbatore.	-dp-	Ist	5,625
P.S.G.Arts College, Coimbatore.	Utilisation of o/s Retired Teachers.		11,000
Sri A.H. Science College for Women Coimbatore.	Grants to affiliated colleges for faculty		7,650
St. Joseph's College, Truchirapalli.	-do-		4,500
R.S. Govt. College, Thanjavur.	College Science Improvement Programme.	Ist	70,000

 6,24,634.55

47. Madurai University

Junior Research Fellowship in Science Allocation of funds.	2nd	50,000
-do-	2nd	33,000
Development Schemes under Plan period		15,000
College Science improvement programme	Ist	1,00,000
Establishment of Microbial Culture Centre for Molecular Genetics at the Department of Biological Science,		17,500
UGC Assistance for the research project.		4,200
All India Seminar on Bioengetics.		5,087.50

Affiliated College.

St. Mary's College, TAMILNADU	Establishment of Book Bank		2,750
Aditanar College of Arts & Sce. Tiruchendur.	College Humanities and Social Sciences Development Programme- Payment of grant.		10,000
Madura College Madurai.	College Science Improvement Programme.	IVth	25,000
Lady Dock. College, Madurai.	Utilisation of services of $\frac{1}{2}$ s retired teachers.		11,830.65
Yadava College, Madurari.	Financial Assistance to Teachers for Research.		1,000

2,75,368-15

8. Magadh University.

Junior Research Fellowship in Science/Humanities.		11,000
-do-		17,000

Affiliated Colleges.

Mirja Ghalib College, Gaya.	Grant for setting up book Bank.	Ist	5,500
A.N.S-inha College, Bihar.	Financial Assistance during V Plan period.	IIIrd	25,000

58,500

49. Marathwada University,
Aurangabad.

Junior Research Fellowship in Humanities.	32,000
-do-	56,000
University Grants Commission Assistance for the Research Work.	10,000
Faculty Improvement programme (Regarding award of Teacher fellowship to Sh. M. Sankaye Balwant lecturer)	3,158.23

Affiliated College.

R.H. Mahavidyalaya Students Aid Fund in the colleges. Maharashtra. 980

P.E.S. Dr. Babashaheb -do- 3,750
Ambeekar College.

1,05,888.23

50. M.S. University of Baroda,
Baroda.

Seminar Institute in English Language during 1973.	11,937.73
Visit of Dr. AV Shoroff, Reader in Soil to U.K.	10,000
Basic grant for the purchase of equipment during V Plan period.	1,00,000
Holding of a Refresher course in Museology.	11,063
Model Diploma Course in Technology under Indo-USSR	1,00,000
Grant in aid for the post-graduate studies in the II faculty of Technology.	40,000
Introduction of Degree Course in Metallurgy-Purchase of Furniture.	30,000
Junior Research Fellowship in Humanities	IIInd 52,000
-do-	" 79,000

4,34,000.73

50. Meerut University

Junior Research Fellowship in Humanities	21,000
-do-	32,000
Workshop on the Atomic and Molecular Collisions during winter 1976.	12,448

Mecrut University Contd.

	Utilisation of Services of o/s retired teachers		9,000
	Faculty Improvement programme Teachers Fellowships		3,088.71
	Award of Teacher Fellowship to Shri MP Singh		3,145.16
	Junior Research Fellowships in Science/Humanities		4,193.55
	-do-		3,149.68
	-do-		11,146.60
		C	
<u>Affiliated Colleges.</u>			
M.M. College, Mudnagar.	College Science Improvement Programme.		80,000
Ch.Chhotu Ram Degree College, Muzaffarnagar.	Grant towards setting up Book Bank.	2nd	1,875
NESC College, Khurja.	Financial Assistance to teachers for Research work		1,250
D.A.V.College, Muzaffarnagar.	Junior Research Fellowships in Science.		904.21
-do-	-do-		2,145.16
	-do-		4,800
M.R.R.C. Khurja	Utilisation of Services of Outstanding Retired Teachers		6,750
S.S.V.College, Hapur.			
			1,96,896-10

51. Mysore University,

	Junior Research Fellowship in Humanities.		76,000
	-do-		1,13,000
	Organisation of workshop in Psychology at Mysore		880.10
	Organisation of Workshop in Political Sce.		15,000
	Increased intake to the post-graduate Courses in Sce. subject.	final	5,675.91
	Financial Assistance to Teachers in the Univ.	Ist	250
	Development Schemes under V Plan period	"	25,000
	Internation Seminar on university Teaching of seed Pathology in Developing countries of Africa and Asia		8,194
	Regional Seminar on Teaching and Research in Plant Taxonomy and Florishis.		7,308

Affiliated Colleges, Mysore university

MCN College, Udipi	Improvement of Under Graduate Education in Vth Plan	10,000
-do-	-do-	5,000
-do-	-do-	10,000
S.A. and S. College, Coondapur	Establishment of Book Bank	2,750
S.V. College, Mysore.	-do-	2,500
		2,81,958.01

Nagpur University

Establishment of Study Centre-Non Recurring grant	10,000
Junior Research Fellowship in Science & Humanities	32,000
-do-	49,000
Grant in aid for the construction of Building for the introduction of New Under Graduate courses	15,000
-do- 4th	1,00,000
-do- 4th	21,000

Affiliated Colleges.

Grants to Colleges Libraries for loan of Books	Ist	4,000
-do-	Ist	4,500
-do-	Ist	4,500
-do-	Ist	8,000
-do-	Final	3,240
		2,52,040

53. North Bengal University

Junior Research Fellowship in Humanities.	2nd	11,000
-do-	2nd	17,000

Affiliated Colleges

Siliguri College, Grant for setting up book banks. of Commerce, Darjeeling.	Ist	8,000
		<hr/> 36,000 <hr/>

54. N.E.H. University

Payment of Maintenance grant to North Eastern Hill University.	IIIrd	10,000
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Affiliated College

Shillong College, Grant for setting up book Bank. Shillong.	Ist	5,500
		<hr/> 15,500 <hr/>

55. Osmania University

Junior Research Fellowship in Sce./Humanities.		1,13,000
-do-		76,000
Utilisation of Services of o/s retired teachers Summer Winter Institute in the Biochemistry.	Ist	9,000
Organisation of workshop in Physiology	Ist	15,000
Seminar on Disparity Tax at the Deptt. of Eco.		1,547.77
All India Summer Institute in Economics -1972		43,168.97
		<hr/> 2,66,716.74 <hr/>

56. Panjab University,
Chandigarh.

Meeting of UGC Committee of Direction in Geography for organisation a short term course at Hyderabad.		2,219.08
Utilisation of Services of Teachers -Retired.		627.66
UGC Assistance for the research project .		5,000
Junior Research Fellowship in Humanities/Sce.		97,000
-do-		1,45,000
-do-		1,500

Punjab University Contd.

<u>Affiliated Colleges</u>	UGC assistance for the research proj.	4,800
D.A.V. College, Abher Pb.	Grant towards the loan of books to students.	
D.S.C. for women	Grants towards the loan of books to students	
Ferozepur city.		4,210
C.N.K. for women ludhiana	-do-	2,812
G.N.D. College, Boraba	-do-	4,500
M.C.E. Education ludhiana	-do-	5,625
GHGC of Education for women Pb.	-do-	4,500
Dev Sanaj College women	Establishment of Book Bank.	Final 2,813
		<hr/>
		2,80,606.74
		<hr/>

57. Panjabi University
Patiala.

Junior Research fellowship in Humanities	IInd	21,000
-do-	IInd	32,000
Financial Assistance to teachers in the universities.		500
UGC assistance for the research project.		10,000
Construction of Boys Hostel No.1		15,949
UGC Assistance for the research project.		9,000

Affiliated Colleges.

Akal Degree College, Panjab.	Grant towards the loan of books to students	Ist	4,500
Thapar Institute of Engineering & Tech. Patiala	-do-		8,437
T.P.D.M. College, Bhatinda Panjab.	-do-	Ist	2,259
			<hr/>
			1,03,645
			<hr/>

58. Patna University

Utilisation of services of outstanding teachers		8,750
Junior Research Fellowship in Humanities/Sec.		64,000
-do-		95,000
		<hr/>
		1,67,750
		<hr/>

59. Panjab Agricultural University

Junior Research Fellowships in Sciences/ Humanities.	1,500
	<hr/> 1,500 <hr/>

60. Poona University

Junior Research Fellowship in Humanities/ Scce.	IIInd	64,000
-do-	IIInd	95,000
National Associateship Scheme		1,500
A Three day seminar on role of Public enterprise in economic development.		2,841
Higher Education and Research-Development		5,44,000
Seminar on the concept Enterepeur during 76-77		4,407
Utilisation of Services of Retired Teachers.		11,193.55
<u>Affiliated Colleges,</u>	-do-	9,000
	-do-	1,819.20
M.J. College, Jalgaon.		
S.N.SS College, - Ahmednagar, M.S.	Basic grant for the development of Post graduate studies in Humanities and social Sces.	30,000
M.A. Cultivation of Science, Law College Road, Poona	Development of post-graduate Studies in Sciences sub jects during the IVth Plan	Final. 5,000
F.C. of Education Poona.	Grants to colleges Libraries for loan of Books.	Ist. 6,000
K.E.T. Arts Nasik	-do-	" 8,000
Pratap College, Amalner	-do-	" 6,000
ENC Arts College, Nasik Road Poona.	-do-	" 4,000
College of Education Dhalia	-do-	" 4,500
Arts & Commerce College, Poona	-do-	" 6,000
H.P.I. College, Nasik	-do-	" 10,000
		<hr/> 8,13,260-75 <hr/>

60. Punjab Rao Krishi Vidaypith,
Akola.

Financial Assistance to teachers in the Universities and colleges for undertaking research. 1,000

1,000

61. Rabindra Bharati, Santiniketan.

Junior Research Fellowship in Humanities. 2nd 15,000

15,000

62. Rajasthan University

Utilisation of services of o/s retired teachers. 9,000

-do-

9,833.33

College Science improvement Programme. 1,15,000

Junior Research Fellowship in Sce/Humanities 97,000

-do-

1,45,000

Affiliated Colleges,

Rajasthan University

Govt. College, UGC Assistance for the research project. 8,800
Ajmer.

-do- Construction of Tube Well. 3,000

SMS Medical College, Research Fellowships in Sciences/Humanities 1,850.72
Jaipur.

Regional College of Grants to College Libraries for loan of Books 8,000
Education Ajmer. first instalment.

Govt. College, Utilisation of o/s retired teachers. 9,000
Ajmer.

-do- -do- 2,000

SSG College, -do- 8,153.22
Jaipur

MRE College, -do- 8,750
Jaipur

SVG Mahavidyalaya -do- 9,000
Rajasthan.

4,32,387-27

63. Ranchi University, Ranchi.

	Junior Fellowship in Science/Humanities. 2nd	56,000
	-do-	" 36,000
<u>Affiliated Colleges</u>		
J.J.College. Hazaribagh Bihar.	Grant for setting up book banks	Ist 4,500
		<hr/>
		96,500
		<hr/>

64. Ravi Shanker University

	Natic Associateship Scheme	908
	Allocation of grant for UGC Unit for 76-77	6,000
	-do-	7,500
	Release of grant for the purchase of scientific equipment during the fifth five Plan period.	62,032.22
	Junior Research Fellowship in Soc/Humanities. II	15,000
	-do-	2nd 10,000
<u>Affiliated Colleges</u>		
Govt. Girls Degree College, Raipur.	Grants to College Libraries for loan of Books	Ist 12,000
		<hr/>
		1,13,440.22
		<hr/>

65. Roorkee University, Roorkee.

	Junior/Senior Research in Soc/Humanities.	38,000
	Faculty Improvement programme Regarding Teacher Fellowship to Shri Ram Krishan	3,888.38
	UGC Assistance for the research project	3,000
	-do-	16,000
	-do-	10,000
	Award of Teacher Fellowship to Shri Om Veer	1,000
	UGC Assistance for the research project	5,400
	Recurrin grant for WRDTC during 76-77	2,00,000
		<hr/>
		2,77,288.38
		<hr/>

66. Rohilkhand University

<u>Affiliated Colleges.</u>		
K.G.K. College, Moradabad.U.P.	Financial Assistance to teachers in the Universities and colleges for undertaking research or learned work in humanities	Ist 2,150
		<hr/>
		2,150
		<hr/>

67-Sambalpur University, Sambalpur.

Junior Research Fellowship in Sce./Humanities.	21,000
-do-	14,000
Financial Assistance for the Development of Museum and AudioVisual Aids.	20,000
Grant for setting up of a book bank. Ist	4,500

59,500

68. Sampurnanand Sanskrit Mahavidyalaya.

Junior Research Fellowship in Humanities	15,000
Seminar on the Important Contribution of Buddhist Philosophy towards the Development of various Schools of Indian Philosophy.	7,848
Senior Research Fellowships in Humanities.	63,000

85,848

69. Sardar Patel University (Gujarat)

Salary of staff for the Department of Education. IV Plan continuing scheme	15,000
Junior Research Fellowship in Sce.	50,000
-do-	77,000
Release of grant for the purchase of Scientific Equipment	5,00,000
UGC Assistance for the research project.	5,000
Basic grant for the purchase of library books and journals during the 5th Five Plan	1,00,000

7,47,000

70. Saugar University

Senior Research Fellowships in Humanities.	2,000
-do-	1,000
-do-	2nd. 1,12,000
-do-	2nd 74,000

p.t.o.

Saugar University(Contd.)

Award of studentships of the value of Rs. 150/- p.m. in the postgraduate course.	7,375.
Allocation of grant unassigned grant -74-75	10,812.50
-do-	Ist 7,500
-do-	" 6,000
-do-	23,726.80
Department of Geology-University of Saugar	3,294.74
Release of recurring grant in respect of S/Junior Research Fellowships.	
Establishment of Study Centre.	20,000
Salary of staff approved during IV Plan for Humanities and Social Sc.	Final 9,305
	<hr/>
	2,77,014.04
	<hr/>

71. Saurashtra University.

Purchase of library books & Journals during the Vth. Plan period.	2,00,000
Junior Research Fellowships	15,000
-do-	10,000
<u>Affiliated Colleges.</u>	
H. & HB Kotak Instt. Grants to Colleges Libraries for loan of of Science, Rajkot. Books to students (Book bank)	8,000
K.S.P.A. College, Gujarat.	-do- 3,250
MBAB College, Condal Gujarat.	-do- IInd 3,150
S.A. College, Gujarat.	-do- Final 3,000
Smt. G.J. Shath C Commerce Colloge, Morvi Gujarat.	Book Bank grant-Sanction of the. Final 1,492
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	2,43,842
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72. S.N.D.T. Womens University

Development of play field and purchase of accessories for games and sports	2,740
Junior Research Fellowship in Humanities including Social Sciences.	25,000
Utilisation of services of outstanding retired teachers-payment of grant in respect of DR B.K.Sohani	8,266.13
Loan of books to students.	6,000
	<hr/>
	42,006-13
	<hr/>

73. Shivaji University

UGC Assistance for the research project	11,735
Junior Research Fellowship in Science/Humanities.	49,000
-do-	2nd 32,000

Affiliated Colleges

S.M.T. College of Education, Kolapur.	Grants to Colleges libraries for loan of books	4,500
K.C. Mahavidyalaya Talmavala	-do-	Final 1,000
AC & SC, Miraj	-do-	" 4,000
DPE Dayanand College, Maharashtra	-do-	" 4,500
Vivekanand College, Kolapur.	-do-	" 4,000
SGM College, Maharashtra.	-do-	" 7,000
A.J.A.M. College, Sgikaoyr,	-do-	" 4,500
S.W. Mahavidyalaya Warangar,	-do-	" 4,000
Rajaraman Mahavidyalaya Sangli M.S.	-do-	" 6,000
-do-	-do-	" 6,000
-do-	-do-	" 3,250
Ajad College of Education (M.S.)	Development of Teaching material & Audio visual	" 15,000
Malwant College, Sangli.	-do-	" 3,250
DBF D.C of Arts & Sce. Sholapur.	College Science improvement programme.	" 60,000

2,19,735

74. South Gujarat University

Allocation of grants for UGC unit.	Ist	6,000
-do-	Ist	7,500
Junior Research Fellowship in Sce/Humanities.		7,000
<u>Affiliated Colleges.</u>		
Smt. J.P.S.A College, Valsad.Gujarat.	Govt. Bank Grant.	final 3,000
Govt. Medical College, Surat.	-do-	" 8,000
		<hr/>
		31,500
		<hr/>

75. Venkateswara University

Organisation of Refresher Course in Chemistry.	Ist	20,000
• Scheme of assistance for the publication . . .		30,000
Grant for Central Workshop Instrumentation "1, Services Laboratory during 5th Plan		50,000
Construction of Staff Quarters-III Set 8 Nos		24,200
UGC Assistance for the Research project		13,000
Junior Research Fellowship in Sce/Humanities		66,000
-do-		43,000
Organisation of seminar on Ramayana Litt.		5,740
-do-		
Seminar on Flourine content in soil water & Plant effecting the human beings.		4,600
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		3,36,540
		<hr/>

76. Udaipur University

Junior Research Fellowship in Sce/Humanities.	47,000
-do-	2nd 72,000
Organisation of Seminar on Modern Trends in Urdu short story.	4,869
UGC Assistance for the research project	13,000
-do-	4,800
-do-	2,382.20
Rajasthan History Conference.	2,000
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1,46,051.20	
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77. Utkal University

Junior Research Fellowship in Soc/Humanities.	50,000
International Symposium on Anthropology of shifting cultivation	13,858
Symposium on High energy physics	8,500
Junior Research Fellowships in Humanities.	33,000

Affiliated Colleges

MPC College, Darjipada Orissa.	Grant for setting up book bank.	Ist	4,000
	-do-	Ist	4,500
	-do-	Ist	2,000
	-do-	Ist	4,000
	Utilisation of services of outstanding retired teachers.		9,000
	-do-		4,500

1,33,358

78. Vikram University

Junior Fellowship in Soc./Humanities.	2nd	9,000
-do-	"	32,000
-do-		1,000
Establishment of Study Centre		13,000
UGC Assistance for the research Project		8,000
-do-		20,000

Affiliated Colleges,

Govt. College, Batalam.	Financial Assistance to Teachers for Teachers	3,000
M.V.M.Ujjain	Grants to Colleges Libraries for loan of Books to students	4,000
Govt. College of Ed Education (M.P.)	-do-	4,500
Govt. College, Sendhava. M.P.	-do-	6,000
-do-	-do-	3,250

1,03,750

79 : Viswa Bharati, Shantiniketan.

Junior Research Fellowship in Scce/Humanities IIInd	39,000
-do-	25,000
Construction of 64 non-teaching staff quarter	2,076.66
Financial Assistance for the Development of Museum and Audio-Visual Aids.	20,000
	<hr/>
	86,076 .66
	<hr/>

80. Birla Institute of Technology & Scce.

Writing of university level books	1,055.28
Basic grant for purchase of equipment during the Vth Plan period for development of Engg.	50,000
Allocation of unassigned grant for 76-77	7,500
Junior Research fellowship in Scce/Humanities	83,000
-do -	83,000
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	2,24,555.28
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81. Central institute of English & Foreign Language.

Proposal ofor a Follow up course to the conducted of CIEFL Regional centre shillong	12,475
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	12,475
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82. Gujarat Vidyaapeeth, Ahmedabad.

Students Amenities programme- Purchase of Wooden plank.	5,000
Junior Research Fellowship in Scce/Humanities.	46,000
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	51,000
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83. Gurukul Kaneri Viswa Vidyalaya.

Junior Research Fellowship in Humanities.	15,000
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	15,000
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84. Indian school of Miras Dhanbad.

Junior Research Fellowship in Sce.	2nd	25,000
Payment of maintenance grant @400 p.m. to Shri P.K. Bordoloi People Friendship University		814.19
		<hr/>
		25,814.19
		<hr/>

85. Indian Institute of Sce. Bangalore.

Junior Research Fellowship in Sce/Humanities.		4,645.16
-do-		1,08,000
Special summer/winter Institute on Recent Trends in Theoretical Chemistry 1976		15,000
Organisation of Advanced International course on Animal virusis.		15,000
UGC Assistance for the research project Symposium on lasers and laser systems.		7,200 12,179
Allocation of unassigned grant during 76-77 in the Vth Plan	Ist	10,000
Utilisation of services of outstanding retired teachers.		233.33
Summer institute in Theoretical Physics for College Teachers during 1976- sanction of an (on account) grant for		29,300
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		<hr/>

86. Jania Milia Islania

Junior Research Fellowship in Humanities.		15,000
		<hr/>
		15,000
		<hr/>

87. Tata Institute of Social Sciences.

Purchase of equipment for Data Processing unit.	Ist.	20,000
Support for advanced research in Humanities.	Final	3,445-30
Junior Research Fellowship in Humanities.	2nd	53,000
Writing of university level books		18,300-60
		<hr/>
		94,745.90
		<hr/>

Total Plan- 209,99,638.24

~~NON-PLAN~~

1. Delhi University.

NON-PLAN

Affiliated Colleges.

St. Stephen's College, Delhi.	Grant for Hostel Mess staff for 74-75	42,500
Lady Irwin College, New Delhi.	-do-	18,703
Lady Shri Ram College, New Delhi.	-do-	20,212
Lady Shri Ram College, for womens, N.Delhi.	-do-	20,212
Dr. Jakir Hussain Memo- rial College, Day classes New Delhi.	-do-	3,649
Maitreye College, New Delhi.	Maintenance Grant for 74-75 payment of	1,27,852
Vivekananda Mahila College, New Delhi.	-do-	24,606
Kirori Mal College, Delhi.	Delhi University constituent Colleges.	2,00,000
Hastinapur College, New Delhi (Day)	-do-	1,50,000
Shri Venkateswara College, New Delhi.	Maintenance Grant for 74-75 payment of	3,00,775
Gyan Devi Salwan College, New Delhi.	-do-	74,100
Mata Sundri College, for Women, New Delhi.	-do-	90,629
Shyama Prasad Mukherji College, for Women, New Delhi.	-do-	65,315

11,38,553.0

2. Indian Institute of Sce. Bangalore.

Payment of maintenance grant to IIS,
Bangalore. for 76-77. 219,96,000

219,96,000

3. Jamia Millia Islamia.

Maint. grant in respect of J.M.I.
Salary of staff. 3,25,000

3,25,000

4. Tata Institute of Social Sciences, Bombay.

Maintenance grant for 76-77 payment of 4,00,000

4,00,000

Total Non-Plan- 238,99,553.00

Grand Total- 448,19,191.24

Confidential

UNIVERSITY GRANTS COMMISSION

Meeting :
Dated : 22nd Sept. '76.

Item No. 4: To receive the statement showing expenditure incurred by the University Grants Commission during the year 1976-77 (upto 31st July, '76)

Section I-Non Plan Project	Budget estimates 1976-77 (Rs. in lacs)	Provisional expenditure up to 31-7-76 (Rs. in lacs)
A Administration Charges	68.00	18.70
B Block Grants		
i) Grants to Central Universities	1950.00	975.00
ii) Grants to Institutions deemed to be Universities	336.00) +23.15)	139.40
iii) Grants to State Universities for specific purposes	10.00	2.00
C Maintenance Grants to Delhi Colleges	800.00	428.00
D Grants not covered under Block Grant - Health Service Scheme	8.00	-
Total Section - I	<u>3172.00</u> <u>+23.15</u>	<u>1563.10</u>
<u>Section II-Plan Projects</u>		
A Grants to Central & State Univ. for Humanities	372.00	40.03 * 0.01
B Grants to Central & State Univ. for Science	735.00	79.39
C Grants to Central & State Univ. for Engg. & Tech.	616.10	81.57
D Grants to Constituent/ affiliated colleges	462.00	77.30 * 0.18
E Grants to Central & State Univ. for Misc. Schemes	1767.45 +22.00	197.01 0.44
F Misc. Expenditure	31.30	3.10
UNESCO Coupons	-	0.40
Total Section II	<u>3983.85)</u> <u>+ 22.00)</u>	<u>478.80</u> <u>* 0.63</u>
Total Section I & II	<u>7155.85)</u> <u>+45.15)</u>	<u>2041.90</u> <u>* 0.63</u>

© Rs. 100.00 lacs to be provided by the Deptt. of Coal during the year 1976-77.

+ Rs. 23.15 lakhs (under Non-Plan) & Rs. 22.00 lakhs (under Plan) allocated by M/Edu & S.W. for C.I.E.F.L. Hyderabad for the year 1976-77.

Section III- Expenditure out of grants received from Govt. of
India and the other sources for specific purposes

i) Evaluation of books	-
ii) Grants to Universities for organising Summer Instt. for School Teachers (out of Contribution received from NCERT)	-
iii) Fellow for writing of books	1,43,456
	@ 11,211
iv) National Sports Organisation Programme	
a) Constr. of Gymnasium	1,55,500
b) Play fields	1,20,594
v) National Award of Prizes	@ 8,605
vi) National Service Scheme	1,01,600
vii) National Survey on Hr. Education	@ 31,236
viii) <u>Hari Om Ashram Trust Endowment Fund</u>	
a) Science	-
b) Life Sciences	-
ix) Ram Charit Manas	-
x) Dr. Zakir Hussain Memorial Lectures	-
xi) Aurbindo Memorial Lectures	-
xii) Gandhi Samrak Nidhi	-
Total Section III	5,72,202
Total Section I, II & III	2047.62 Rs. in lakhs * 0.63
<u>Section IV Deposits & Advances</u>	
i) Conveyance Advance	6,000
ii) Festival Advance	-
iii) House Building Advance	77,137
iv) Fan Advance	100
v) UGC Deptt. Canteen	-
Total Section IV	83,237
Expenditure during 1975-76 (upto 31st July, 1975 was as under :	
Section - I Non-Plan Project	10,39,86,457
Section - II Plan projects	6,67,51,325
Total Section I & II	17,07,37,782

@ Adm. Charges.

* By adjustment.

Confidential

UNIVERSITY GRANTS COMMISSION

Meeting:

Dated : 22 September, 1976

Item No. 5 : To receive the Annual Accounts of the University Grants Commission for the year 1973-74 as presented to the Parliament under Section 19(4) of the UGC Act, 1956.

The Annual Accounts of the University Grants Commission (Annexure-I) were audited by the Accountant General, Central Revenues, under section 19(3) of the University Grants Commission Act during the period from 29.7.1974 to 10.10.1974 and the Audit Report (Annexure-II) thereon was received in the Commission on 2.8.1976 in terms of Section 19(4) of the UGC Act. The audit paras and comments thereon have been given in Annexure-III.

The matter is placed before the Commission.

FINANCE OFFICER

'SLK'

P.70

(2)

Annexure I to Item No. 5

PART-I

ANNUAL ACCOUNTS OF THE UNIVERSITY
RECEIPTS AND

Receipts	Amount
(Rounded off to whole rupees)	
Opening balance	97,74,151
<u>Revenue Receipts</u>	
1. Grant-in-aid received from Central Government	
i) Non-Plan Projects	11,57,98,000
ii) Plan Projects	22,49,00,000
2. Grants received from Ministry of Education & Social Welfare and other sources	
a) Writing of books	13,00,000
b) National sports Organisation Programmes.	2,44,910
c) National award of prizes	7,87,000
d) Evaluation of books. . .	4,300
e) <u>Interest on Fixed Deposits</u>	
a) Dr. Zakir Hussain Memorial Lectures	10,875
b) Aurbindo Memorial Lectures	21,750
c) Hari Om Ashram Trust	16,312
3. Refund of unspent balances out of grants paid in previous years:-	
i) Allocable to UGC (Plan)	41,03,971
ii) Allocable to UGC (Non-Plan)	27,09,603
iii) Allocable to N.C.E.R.T.	79,711
iv) Writing of books	6,758
v) Gandhi Samarak Nidhi	19,254
4. Miscellaneous Receipts	
i) C.G.H.S. contributions	8,912
ii) Interest of advances recoverable	5,626
iii) Interest received from S.B.I. on C.P. Fund Account	18,911
G.P. Fund Account	2,870
iv) Water & Electricity charges (U.G.C. Staff quarters)	1,362
v) Other Miscellaneous receipts	
a) Non-Plan	44,169
b) Plan	1,122
Total Revenue Receipts	<u>35,00,25,416</u>
	<u>35,98,59,1</u>

GRANTS COMMISSION FOR THE YEAR 1973-74
 PAYMENTS ACCOUNT

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PAYMENTS Amount
 (Rounded off to whole rupees)

Section I Non-Plan Projects:

A. Administration Charges	46,23,185
B. Block Grants to Central Universities	7,59,16,483
C. Maintenance grants to constituent/ affiliated colleges of Delhi University	2,85,10,272
D. Schemes not covered under Block Grant (Interim relief to Employees of Central Universities)	91,00,836
Total Section I Non-Plan Projects:	<u>11,81,50,776</u>

Section II - Plan Projects:

A. Grants to Central and State Universities for Humanities	2,93,75,101
B. Grants to Central and State Universities for Science	4,73,97,265
C. Grants to Central and State Universities for Engineering & Technology	1,94,98,125
D. Grants to Constituent and Affiliated Colleges	6,80,28,088
E. Grants to Central and State Universities for Miscellaneous Schemes	7,69,85,584
F. Miscellaneous Expenditure incurred by UGC on Seminars & Conferences etc.	13,10,873
Total Section II - Plan Projects	<u>24,25,95,036</u>

Total Section I & II 36,07,45,812

(4)

Part I (Contd.)

ANNUAL ACCOUNTS OF THE UNIVERSITY
RECEIPTS AND

RECEIPTS	Amount
	(Rounded off to whole rupees)
<u>Deposits and advances</u>	
<u>Advances Recoverable</u>	
1. Recoveries of Conveyance Advance	68,711
2. Recoveries of Festival Advances	20,540
3. Recoveries of House Building Advance including Flood Advance	66,087
4. Recoveries of Fan Advances	20
4. Recoveries of Loan from UGC Departmental Canteen	1,300
<u>Recoveries adjustable in other accounts</u>	
6. Recoveries on account of UGC C.P. Fund	2,58,692
7. Recoveries on account of UGC G.P. Fund	2,62,593
8. Recoveries of House Rent	35,603
9. Recoveries of Life Insurance Premium	74,916
10. Recoveries of Income-Tax	83,672
11. Recoveries from Officials on deputation to U.G.C.	
a) G.P. Fund : C.P. Fund	12,937
b) Conveyance Advance	1,000
<u>Miscellaneous Items</u>	
12. Rouble Credit Scheme	1,22,241
13. Dollar Loan Scheme	61,91,456
14. Unesco Coupons	3,69,955
15. Andhra University	7,927
16. Other Miscellaneous items	6,044
Total Deposits & Advances	<u>75,83,699</u> <u>36,74,43</u>

GRANTS COMMISSION FOR THE YEAR 1973-74
PAYMENT ACCOUNT

(5)

PAYMENTS Amount
(Rounded off to whole rupees)

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

i) Fellows for writing of book (out of grants received from Ministry of Education and Social Welfare)	9,75,836 * 35,901
ii) Grants to Universities and other expenditure for organising Summer Institutes (out of contribution received from N.C.E.R.T.)	4,36,489
iii) Evaluation of Books (out of grants received from Ministry of Education & Social Welfare)	1,400
iv) National sports organisation Programme (out of grants received from Ministry of Education & Social Welfare)	17,44,770
v) Dr. Zakir Hussain Memorial Lectures (out of interest on grants received from Ministry of Education and Social Welfare)	8,513

Total Section III 32,02,909

Total Section I - III 36,39,42,721

Section IV deposits and Advances:

Advances Recoverable:

1. Conveyance Advance	47,175
2. Festival Advance	18,840
3. House Building Advance	1,63,090
4. Loan to UGC Departmental Canteen	2,000

Remittances in respect of recoveries adjustable in other accounts

5. Remittance of recoveries on account of C.P. Fund	2,57,992
6. Remittance of recoveries on account of G.P. Fund	2,63,106

*Administration charges

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Part I (Contd.)

ANNUAL ACCOUNT OF THE UNIVERSITY
RECEIPTS AND

RECEIPTS

Amount
(Rounded off to whole rupees)

Total brought forward

36,74,43,266

Grand Total

36,74,43,266

GRANTS COMMISSION FOR THE YEAR 1973-74
PAYMENT ACCOUNT

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PAYMENTS	Amount (Rounded off to whole rupees)
7. Remittances of recoveries of House Rent	35,604
8. Remittance of recoveries on account of Life Insurance Premia	74,932
9. Remittance of recoveries of Income-Tax	80,308
10. Remittance of recoveries from officials on deputation	
a) C.P. Fund/G.P. Fund	12,937
b) Conveyance	1,000
11. <u>Miscellaneous Items:</u>	
i) Unesco Coupons	3,80,160
ii) Rouble Credit Scheme	14,938
iii) Miscellaneous items	18,123
	<u>13,70,205</u>
Total Section IV	
Total Section I to IV	<u>36,53,12,926</u>
Closing Balance	<u>21,24,340</u>
Grand Total:	<u>36,74,43,266</u>

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PART-II

Particulars of advances outstanding as on 31.3.1974

i)	Permanent advance	3,500-00
ii)	Conveyance advance	1,26,912-00
iii)	House Building Advance (including Flood Advance)	8,51,384-00
iv)	Festival advance	9,406-00
v)	Leave Salary Advance to Officials on deputation to U.G.C.	1,000-00
vi)	Loan to UGC Departmental Canteen	1,800
vii)	Advance to CARE to meet expenditure connected with Indian Wheel Loan Educational Exchange Programme	75,139-36
viii)	Recoverable from Ministry of Educational & Social Welfare on account of the expenditure incurred towards:	
	i) Indo-Bulgarian Cultural Exchange Programme	1,112-27
	ii) B.H.U. Enquiry Committee etc.	331-55
	iii) Advance to D.A.V.P.	26,000-00

PART-III

Particulars of securities

<u>Particulars of securities</u>	<u>Amount</u>	<u>Remarks</u>
1. Funds for Dr. Zakir Hussain Memorial Lectures (Ministry of Education & Social Welfare)	1,00,000	Invested in fixed depu with State Bank of Ind Parliament Street New Delhi (1971-72)
2. Funds for Aurbindo Memorial Lectures (Ministry of Education and Social Welfare)	3,00,000	-do- (1972-73)
3. Funds from Hari Om Ashram Trust	4,50,000	-do- (1972-73)

PART-IV

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DETAILS OF CLOSING BALANCES AS ON 31.3.1974

i)	Balance from the grants received from Gandhi Samarak Nidhi for construction of Gandhi Bhavans in Universities	72,663-52
ii)	Balance from contribution received from U.S.A.I.D. for organising Summer Institutes	32,703-85
iii)	Balance from contribution received from NCERT for organising Summer Institute for school teachers	1,38,677-25
iv)	Balance from grants received from Ministry of Education & Social Welfare for Fellows for writing of books	29,085-04
v)	Deposits under U.S. Dollar Loan Schemes (Securities)	2,33,200-74
vi)	Balance from the grants received from the Ministry of Education & Social Welfare for Evaluation of Books	3,600-00
vii)	Balance from the grants received from the Ministry of Education & Social Welfare for the National Sports Organisation Programme	2,98,792-12
viii)	Balance out of grant received from the Ministry of Education & Social Welfare for National Award of Prizes	7,87,000-00
ix)	Balance out of interest received on Fixed Deposits:-	
	a) Surbindo Memorial Lectures	15,312-50
	b) Dr. Zakir Hussain Memorial Lectures	2,362-36
	c) Hari Om Ashram Trust	16,312-50
x)	Balance from grants received from Central Government & other Misc. receipts	3,89,125-17
		<u>21,21,340-05</u>

Sd/-
(K.V. Janakiraman)
Accounts Officer

Sd/-
(R.P. Bhatnagar)
Finance Officer

Sd/-
(R.K. Chhabra)
Secretary

(10)

**AUDIT REPORT ON THE UNIVERSITY GRANTS
COMMISSION, NEW DELHI FOR 1973-74.**

1. General

The University Grants Commission was established in November 1956 under the University Grants Commission Act, 1956. The Commission disburses:-

- a) maintenance grants to Universities established or incorporated by or under a Central Act, and
- b) development grants to all the universities and institutions recognised as or deemed to be universities under section 2(f) and 3 of the Act.

For these purposes, the Commission receives grants from the Government of India to cover:-

- (i) 'Non-Plan' expenditure for maintenance of Central Universities and for administrative expenses of the Commission; and
- (ii) 'Plan' expenditure to meet the development needs of universities and institutions recognised as or deemed to be universities.

In addition, the Commission receives grants from Government and other sources for specified objects.

2. Actual receipts and payments of the Commission during 1971-72 to 1973-74 under various heads are given below:-

<u>Receipts:</u>	<u>1971-72</u>	<u>1972-73</u>	<u>1973-74</u>
	(In lakhs of Rupees)		
i) Opening balance	132.37	66.44	97.74
ii) Grants received from the Govt. of India	3,347.33	3,842.61	3,406.93
iii) Recovery of unspent balance out of grants paid in previous years and Misc. receipts	27.37	31.51	70.02
iv) Specific grants from Govt. and other sources	13.50	20.50	23.65
v) Deposits and advances	14.75	293.99	75.84
Total:	<u>3,586.37</u>	<u>4,255.05</u>	<u>3,674.43</u>

(11)

Payments

A. Non-Plan

i)	Administrative expenditure	33.32	41.56	46.23
ii)	Block grants to Central Universities	720.80	751.03	759.17
iii)	Maintenance grants to constituent/affiliated colleges of Delhi University	239.57	247.85	235.10
iv)	Grants to Central Universities for schemes not covered under block grant	33.09	49.13	91.01
		<u>1,036.78</u>	<u>1,089.62</u>	<u>1,181.51</u>

B. Plan

i)	Grants to Central and State Universities for Humanities	254.10	304.73	293.75
ii)	Grants to Central and State Universities for Science	404.09	674.82	473.97
iii)	Grants to Central and State Universities for Engineering & Technology	190.77	199.54	194.98
iv)	Grants to Central and State Universities for misc. schemes	646.46	776.95	769.86
v)	Grants to constituent and affiliated colleges	900.15	859.10	680.23
vi)	Miscellaneous expenditure incurred by University Grants Commission on Seminars, conferences etc.	9.51	12.85	13.11
		<u>2,405.02</u>	<u>2,827.99</u>	<u>2,425.95</u>

C.

i)	Expenditure out of grants for specific purposes	18.45	46.21	32.03
ii)	Deposits, advances and Miscellaneous items	59.62	193.49	13.70
iii)	Closing Balances	<u>66.44</u>	<u>97.74</u>	<u>21.24</u>
		<u>144.51</u>	<u>337.44</u>	<u>66.97</u>
Total Expenditure (A) + (B) + (C)		<u>3,586.37</u>	<u>4,255.05</u>	<u>3,674.43</u>

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3. Scientific Equipment: In para 5 of the Audit Report on the accounts of UGC for 1972-73, mention was made about equipment costing Rs. 23.33 lakhs obtained through grants from the University Grants Commission or received under aid programmes as lying unused (September, 1974) in several Universities for one to seven years. The value of such equipment was subsequently estimated to be Rs. 51.69 lakhs (excluding cost of 25 equipment whose value was not known) as ascertained by the UGC from 365 out of 380 departments of various universities/colleges. University Grants Commission have thereafter stated that the date about the value of such equipment has completely changed and it would be possible to give the exact information on receipt of replies from all heads of departments.

An expert committee appointed by the University Grants Commission to examine the question of effective utilisation and maintenance of the said specialised Scientific Equipments submitted its report in January, 1974. The University Grants Commission have indicated (January, 1976) that the Fifth Plan Visiting Committees set up (from November, 1976 onwards) by the Commission were examining the proposals submitted by the Universities in regard to establishment of Centralised Research Instruments Centres, workshop facilities or for purchase of equipment etc. in the light of the recommendations of the expert committee. The Commission have further intimated that they have suggested to the universities to take advantage of the facilities for repairs of instruments available with the regional centres operated by the Central Scientific Instrument Organisation and available with Bhabha Atomic Research Centre, Bombay and Central Drug Research Institute, Lucknow and similar organisations. As regards the recommendation of the Committee that the University Grants Commission may examine the possibility of transferring some of the expensive items of equipment lying idle to suitable centres where they could be put to effective use, the UGC have stated that they will consider the question of devising ways for putting the equipments to use.

4. Unsatisfactory implementation of project.

A mention was made in paragraph 132 of the Audit Report (Civil) 1967 regarding slow progress in the publication of Malayalam lexicon by Kerala University. A further review of the project revealed the following position:-

The work on the project started in 1953. The Commission approved the project consisting of 7 volumes of Malayalam Lexicon at an estimated cost of Rs. 16.67 lakhs, the Commission providing Rs. 10.14 lakhs and the balance to be met by the State Government. No time limit for its

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completion was prescribed. In 1959, on the recommendations of an Expert Committee the target date for completion of the project was fixed as March, 1966 and the cost was estimated at Rs. 1.20 lakhs per annum (recurring) and Rs. 2.40 lakhs (non-recurring), the Commission's share being 50% (recurring) and 66 $\frac{2}{3}$ % (non-recurring). The progress again reviewed in July 1963 by a Visiting Committee on whose recommendations the Commission revised the project cost to Rs. 11.30 lakhs with the same basis of sharing. The period of completion of the project was extended to March, 1971.

In December 1970, the University intimated that only two volumes had been published and final editing of the remaining five volumes was to be done. The University sought further extension of five years at an estimated cost of Rs. 5.60 lakhs. The Commission decided in February, 1971 to discontinue assistance towards the project from March, 1971. The Commission had released a total amount of grant of Rs. 6.33 lakhs for the project during the period 1954 to 1971.

The Commission intimated (September, 1974) that though its assistance had ceased from March, 1971, the work was in progress and the assistance given by the Commission was not infructuous. But the Commission has not been able to indicate even in January, 1976 further progress of the project and the likely date of its completion.

5. Grants to Gujarat University:

On the recommendations made by the Visiting Committee of the Gujarat University in August, 1967, the University Grants Commission sanctioned two posts of Readers and two posts of Lecturers in the Department of Political Science at Gujarat University during Fourth Plan period. These posts were meant for running specialised courses for the study of problems relating to local Government, political behaviour and contemporary political theories and for the study of American politics and system of Government.

The posts were filled up by the University in June, 1969 and June, 1971 but it did not, however, introduce for the period from 1969-70 and 1973-74, the specialised course for which the posts were sanctioned. The University explained in September 1973 to the Commission that in spite of their best efforts they could not recruit any specialist with the required qualifications for the four posts, but on the advice of the Selection Committee the posts were filled up from among promising scholars who were being imparted necessary training for running the specialised courses subsequently. The Commission as a very special case approved of the action of the University but terminated the assistance to the university

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from 1.4.1974.

An expenditure of Rs. 1.97 lakhs was incurred on these posts from 1969-70 to 1973-74 by the University of Gujarat.

6. Bank Reconciliation

Credit for Rs. 10,000/- deposited by the Commission prior to 30th September, 1971 in their General Account in the Bank was not afforded by the Bank (July, 1975).

New Delhi :

Dated : 6th April, 1976

Sd/- xx.
(G.B. Singh)
Accountant General Central Revenues.

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AUDIT CERTIFICATE

I have examined the foregoing accounts of the University Grants Commission and obtained all the information and explanations that I have required and, subject to the observations in the Audit Report appended, I certify, as a result of my audit, that in my opinion these accounts are properly drawn up so as to exhibit a true and fair view of the State of affairs of the University Grants Commission according to the best of my information and explanations given to me and as shown by the books of the University Grants Commission.

New Delhi.

6th April. 1976

Sd/-

(G.B. Singh)

Accountant General Central Revenues

AUDIT REPORT OF THE UNIVERSITY GRANTS
COMMISSION, NEW DELHI FOR 1973-74

(16)

1. General

The University Grants Commission was established in November 1956 under the University Grants Commission Act, 1956. The Commission disburses:-

- a) maintenance grants to Universities established or incorporated by or under a central act and UGC Comments.
- b) development grants to all the universities and institutions recognised as or deemed to be universities under sections 2(f) and 3 of the Act. No comment

For these purposes, the Commission receives grants from the Government of India to cover:-

- i) 'Non-Plan' expenditure for maintenance of Central Universities and for administrative expenses of the Commission; and
- ii) 'Plan' expenditure to meet the development needs of universities and institutions recognised as or deemed to be universities.

In addition, the Commission receives grants from Government and other sources for specified objects.

2. Actual receipts and payments of the Commission during 1971-72 to 1973-74 under various heads are given below:-

<u>Receipts</u>	<u>1971-72</u>	<u>1972-73</u>	<u>1973-74</u>	
	(in lakhs of rupees)			
i) Opening balance	182.87	66.44	97.74	
ii) Grants received from the Government of India	3,347.33	3,842.61	3,406.93	No comments
iii) Recovery of unspent balance out of grants paid in previous years and Misc. receipts	27.87	31.51	70.02	

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iv) Specific grants from Govt. and other sources	13.50	20.50	23.85
v) Deposits and advances	14.75	293.99	75.84
Total:	<u>3,526.37</u>	<u>4,255.05</u>	<u>3,674.43</u>

Payments:

A. Non-Plan

i) Administrative expenditure	38.32	41.56	46.23
ii) Block grants to Central Universities	720.80	751.03	759.17
iii) Maintenance grants to constituent/affiliated colleges of Delhi University	239.57	247.85	285.10
iv) Grants to Central Universities for schemes not covered under block grant.	38.09	49.18	91.01
	<u>1,036.78</u>	<u>1,089.62</u>	<u>1,181.51</u>

B. Plan

i) Grants to Central and State University for Humanities	254.10	304.73	293.75
ii) Grants to Central and State Universities for Science	404.09	674.82	473.97
iii) Grants to Central and State University for Engineering and Technology	190.77	199.54	194.98
iv) Grants to Central and State Universities for Misc. schemes	646.46	776.95	769.86
v) Grants to constituent and affiliated colleges	900.15	859.10	680.28
vi) Miscellaneous expenditure incurred by University Grants Commission on Seminars, conferences etc.	9.51	12.85	13.11
	<u>2,405.08</u>	<u>2,827.99</u>	<u>2,425.95</u>

C.			
(i) Expenditure out of grants for specific purposes	18.45	46.21	32.03
(ii) Deposits, advances and Misc. items	59.62	193.49	13.70
			No comments
(iii) Closing Balances	66.44	97.74	21.24
	<u>144.51</u>	<u>377.44</u>	<u>66.97</u>
Total Expenditure (A) + (B) + (C)	<u>3,586.37</u>	<u>4,255.05</u>	<u>3,674.43</u>

3. Scientific Equipment:

In para 5 of the Audit Report on the accounts of UGC for 1972-73, mention was made about equipment costing to Rs. 23.33 lakhs obtained through grants from the University Grants Commission or received under aid programmes as lying unused (September, 1974) in several Universities for one to ten years. The value of such equipment was subsequently estimated to be Rs. 51.69 lakhs (excluding cost of 25 equipment whose value was not known) as ascertained by the UGC from 365 out of 380 departments of various universities/colleges. University Grants Commission have thereafter stated that the data about the value of such equipment has completely changed and it would be possible to give the exact information on receipt of replies from all heads of departments.

An expert committee appointed by the UGC to examine the question of effective utilisation and maintenance of the said specialised scientific equipments submitted its report in January, 1974. The UGC have indicated (January, 1976)

The matter regarding repairs and utilisation of 'Idle' equipment was further discussed by the Science Research Council, at its meeting held on 23rd March, 1976. The proceedings of Science Research Council are enclosed (Appendix-I). In pursuance of the recommendations of the Science Research Council, following Expert Committees have been constituted:

- i) To suggest a pattern in which Central Instrument Laboratories be set up in the universities including their staffing pattern.
- ii) To consider and go into the overall question of instrument repair and maintenance Centres.

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that the Fifth Plan Visiting Committees set up (from November 1974 onwards) by the Commission were examining the proposals submitted by the Universities in regard to establishment of Centralised Research Instruments Centres, workshop facilities or for purchase of equipment etc. in the light of the recommendations of the expert committee. The Commission have further intimated that they have suggested to the universities to take advantage of the facilities for repairs of instruments available with the regional centres operated by the Central Scientific Instrument Organisation and available with Bhabha Atomic Research Centre, Bombay and Central Drug Research Institute, Lucknow and similar organisations. As regards the recommendations of the Committee that the UGC may examine the possibility of transferring some of the expensive items of equipment lying idle to suitable centres where they could be put to effective use, the UGC have stated that they will consider the question of devising ways for putting the equipments to use.

4. Unsatisfactory implementation of Project.

A mention was made in paragraph 23 of the Audit Report (Civil) 1967 regarding slow progress in the publication of Malyalam Lexicon by Kerala University. A further review of the project revealed the following position:-

The work on the project started in 1953. The Commission approved the project consisting of 7 volumes of Malyalam Lexicon at an estimated cost of Rs. 16.67 lakhs, the Commission providing Rs. 10.14 lakhs and the balance to be met by the State

Kerala Univer
Syndicate appoint
committee consisting of the
members of the Syndicate
to consider the recommenda-
tions of the Review Committee
previously appointed by
the university. The
Special Committee has
recommended reorganisation
of the Lexicon Department
for the expeditious release
of the remaining volumes
of the Malyalam Lexicon.

Copies of reports of
Review Committee and Special
Committee are appended.
(Appendix II & III).

Government. No time limit for its completion was prescribed. In 1959, on the recommendations of an Expert Committee the target date for completion of the project was fixed as March, 1966 and the cost was estimated at Rs. 1.20 lakhs per annum (recurring) and Rs. 8.40 lakhs (non-recurring). The progress again reviewed in July, 1963 by a Visiting Committee on whose recommendations the Commission revised the project cost to Rs. 11.80 lakhs with the same basis of sharing. The period of completion of the project was extended to March, 1971.

The Commission's share being 70% recurring and 66 2/3 per cent non-recurring)

In December, 1970, the University intimated that only two volumes had been published and final editing of the remaining five volumes was to be done. The university sought further extension of five years at an estimated cost of Rs. 5.60 lakhs. The Commission decided in February, 1971 to discontinue assistance towards the project from March, 1971. The Commission had released a total amount of grant of Rs. 6.83 lakhs for the project during the period 1954 to 1971.

The Commission intimated (September 1974) that though its assistance had ceased from March, 1971, the work was in progress and the assistance given by the Commission was not infructuous. But the Commission has not been able to indicate even in January, 1976 further progress of the project and the likely date of its completion.

5. Grants to Gujarat University.

On the recommendations made by the Visiting Committee

The Commission as a very special case approved the action of the university.

(21)

of the Gujarat University in August 1967, the University Grants Commission sanctioned two posts of Readers and two posts of Lecturers in the Department of Political Science at Gujarat University during fourth plan period. These posts were meant for running specialised courses for the Study of problems relating to Local Government, political behaviour and contemporary political theories and for the study of American politics and system of Government.

The posts were filled up by the University in June 1969 and June 1971 but it did not, however, introduce for the period from 1969-70 and 1973-74, the specialised course for which the posts were sanctioned. The University explained in September, 1973 to the Commission that in spite of their best efforts they could not recruit any specialist with the required qualifications for the four posts, but on the advice of the Selection Committee the posts were filled up from among promising Scholars who were being imparted necessary training for running the specialised courses subsequently. The Commission as a very special case approved of the action of the University from 1.4.1974.

An expenditure of Rs. 1.97 lakhs was incurred on these posts from 1969-70 to 1973-74 by the University of Gujarat.

6. Bank Reconciliation .

Credit for Rs. 10,000/- deposited by the Commission prior to 30th September, 1971 in their General Account in the Bank was not afforded by the Bank (July 1975).

The Commission has not paid any grant to the University after 1.4.1974 for this purpose as the expenditure on these posts has become Committed expenditure. The University has now provided facilities for specialisation in Modern Political Analysis, Political Sociology Political Psychology as well as recent contemporary Political thoughts. A copy of letter from Gujarat University is at Appendix IV.

The amount of Rs. 10,000/- was refunded by the People's College, Nanded through a Demand Draft drawn in favour of the University Grants Commission. The Demand Draft was returned by the State Bank of India New Delhi for revalidation. The Demand Draft in question seems to have been misplaced in transit. The matter has since been taken up with the College to issue a duplicate Demand Draft & the college has informed that on receipt of a certificate from State Bank of India, New Delhi regarding non-payment of the Demand Draft under reference to the University Grants Commission, duplicate Demand Draft would be issued by them. Reminders are being sent to the College/State Bank of India for early settlement of this case.

ITEM NO. I

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Repair of Idle equipment:

While discussing the action taken on the proceedings of the last meeting of the Council held in July, 1975, members expressed concern that nothing concrete has come out so far regarding the repairs of large number of instruments lying unserviceable with various universities for one reason or the other. Many items of equipment were idle because of lack of certain spares, while in other cases the reason was non-availability of repair personnel. Also, in some cases, University departments did not have enough funds at their disposal for purchase of spares and/or repairs. The Council noted that no reasonable accurate estimate was available of the needs of the universities or details of what was wrong with the equipment.

The council observed that the Central Instrument Laboratory of the Indian Institute of Science, Bangalore was a good example of how the problem could be solved, and that it would be desirable to set up similar units in some of the large universities, both for science and engineering departments. The Council noted that in Vth Plan development grants to universities the Commission has allocated money to enable universities to make a start at organising such facilities.

The Council recommended as follows:

- (i) A Committee may be constituted to suggest a pattern on which the Central instrument laboratories may be set up in the universities, including their staffing pattern.
- (ii) UGC may consider making an ad-hoc grant for the purpose of repairing and putting into service idle equipment if a few places can be identified.
- (iii) The Council emphasised that trained instrument technicians were in short supply and therefore it considered necessary that arrangements be worked out in consultation with the institutions such as the CSIO, Indian Institute of Science, I.I.Ts. B.A.R.C. and T.I.F.R. for necessary training so that such instrument technicians would be available for universities.
- (iv) A Committee may be constituted to make an assessment of the instrument repair work involved and make suitable recommendations. In the first instance, this Committee might visit six Universities both for making an assessment and for carrying out repairs. This was likely to give a better idea of the nature and amount of work involved.

REPORT OF THE LEXICON WORK REVIEW COMMITTEE

The first meeting of the Review Committee was held on 16.1.1976 in the presence of the Vice-Chancellor Dr. R.S. Krishnan. The Vice-Chancellor explained the purpose of constituting this Committee and the matters on which its recommendations are expected. On the same day the Committee held the preliminary discussion with the editor of the Lexicon Dr. K.V. Namputiripad.

On 22.1.76 the Committee, with a view to understanding the different aspects of the preparation of the work, met the experienced staff of the Lexicon, and ascertained directly from them the nature of the work that each of them is doing, the time taken for the preparation of the matter under each article, the delay in the process and the causes therefor etc.

The Review Committee was able to arrive at certain conclusions on the basis of the reports about the work of the Department sent to the University by the Editors of the Lexicon, the letters from the UGC to the University, the statement of accounts supplied by the Editor regarding the amount so far spent on the scheme and the proposals of the Editor for expediting the lexicon work.

On 27th and 28th January the Committee met the members of the Lexicon Staff individually. They recorded their views about the present method of work, the process involved, the changes to be made therein, the causes of delay, the means to speed up the preparation of the press copy, the delay regarding proofs etc.. In this connection the Editor also supplied the Committee his scheme for the improvement in the future working of the Lexicon. Most of the recommendations in the present report are based on all this.

On 3rd February the Committee held detailed discussions with the Editor Dr. K.V. Namputiripad.

The free discussion with the Editor and the Staff revealed the following:

- (a) For speeding up the work, it is very much necessary to modify the present method of working in which there is avoidable delay.
- (b) Instead of the present system in which the Editor and the Staff jointly work on a single volume, there must be decentralisation of work resulting in the simultaneous preparation of more volumes.
- (c) A time-bound programme by which the Lexicon can be completed in the minimum time should be devised and the working reorganised accordingly.

(...2...)

- (d) At present the delay in reading proofs is enormous. The practice of making numerous additions and deletions in the proof stage should be given up.
- (e) The reduction effected in the staff has affected the progress to some extent. For speedy and efficient execution of the work, additional hands may be required at least in some stages.
- (f) Due attention should be given by the authorities for the service conditions of the staff and their promotion possibilities.
- (g) Although the Lexicon Department is considered as a Department of Research, Research students have not been so far admitted there. Some members of the staff have registered themselves as research students. The department may be considered as one of research in lexicography and the experienced members of the staff encouraged to guide research in the line.

On the basis of all this, the Committee considered the matters to be included in the Report in the meetings held on 4th and 5th February. The report was finalised on 22nd Feb. and was submitted to the Vice-Chancellor on 24th February.

LIXICON TILL NOW

The lexicon work was started in July, 1953. The first volume came out at the end of 1965. It contains all the words beginning with the letter 'A'. The second volume came out in 1970. It contains all the words beginning in the letters from 'A' to 'AU'.

In 1971 the first editor Sri Suranad Kunjah Pillai retired from service. Then the present editor, Dr. K.V. Nampudiripad took charge. Till the preparation of this report the third volume has not come out although the printing is stated to be completed.

PLAN OF WORK

There are three stages in the preparation of the lexicon (1) the collection of all the words in the spoken and literary tongues, (2) the preparation of the draft relating to each work (3) the scrutiny and editing of these drafts and the final printing.

Just before his retirement, on 21st June 1971, Sri Suranad Kunjan Pillai had written to the University that the first two of the above stages in the work had been completed and more than 15 lakh cards and the draft for 7 volumes of 1000 pages each were ready. As a result of the impression created in the authorities that it is the draft which has undergone preliminary editing that passes through the final stage of editing, the lexicon staff was reduced. But it could be known from the staff that ~~may of the~~ drafts/is put to detailed expert scrutiny. This is a time-consuming

are not actually in the final stage of editing. Every draft

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process. The final editing is done by the Editor himself. This also brings about delay. Moreover, much of the matter given to the press has not undergone final editing. This is done in the proofs and this naturally slackens the progress of printing. This is the reason why after 1971, till this February, 1976 the third volume has not appeared.

LEXICON STAFF

It must be due to the impression that most of the work relating to the lexicon is over and what is left is only the final editing that the University effected considerable reduction in the staff. The relative staff positions during 1957-60 and at the end of the February 1976 are given below:

<u>STAFF</u>	<u>1957-60</u>	<u>1971-76</u>
Editor	1	1
Asstt. Editor:	-	1
Sub. Editor:	10	2
Lexicon Assistants:	25	3
Scribes:	10	8
TOTAL:	<u>46</u>	<u>15</u>

The Staff here is well experienced and competent. The editing work is looked after by the Editor, Asstt. Editor, and the Sub-Editors. The Lexicon Assistants do the scrutiny. The scribes help in this work, read the proofs, supply books for reference and write the fair copy. But generally speaking, there is no specific division of work or responsibility.

The original plan was to have seven volumes:

<u>VOLUME</u>	<u>INITIAL LETTER</u>	<u>DRAFT (FULLSCALE PAGES)</u>
1.	A	4000
2.	A-AU	5000
3.	K	8300
4.	C-T	7200
5.	N-P	7600
6.	PH-L	5800
7.	V-ZH-R	8100
		<u>46000</u>

Instad of different volumes of different size, it is better to have volumes of more or less uniform size. Accordingly after

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(...4...)

the third volume which choses with 'KI', the division may be as follows:

<u>VOLUME</u>	<u>INITIAL LETTERS</u>	<u>DRAFT (FULLSCAP PAGES)</u>
4.	KU-NA	4200
5.	CA-TA	4237
6.	TA-NA	4543
7.	NI-PU	4366
8.	PE-MA	4304
9.	MA-VA	4496
10.	VA-SA	4095
11.	SA-RA	3215

In this way, eight more volumes are necessary. These, the committee feels, should be prepared according to a new method. The old method should be drastically changed.

NEW METHOD

...33456 fullscap pages for eight volumes are to be edited. The Lexicon staff may be divided into four groups and each entrusted with the drafts of one volume, thus enabling the preparation of four volumes simultaneously. Each group may be headed by the Editor (1)/Sub-Editor (2)/Assistant Editor(2)/and have one Lexicon Assistant and two scribes. Thus a group of four will do the final editing of each volume.

To ensure high quality, it is necessary that the matter edited by one group is scrutinised by another group.

The duty of the Editor is to direct the functioning of the groups and to conduct the over all scrutiny in the end. By this his responsibility is not in any way reduced; the change is only in the manner of the work.

Particular care should be taken to see that the division into groups does not affect the standard of the Lexicon. The head of the groups should take the responsibility for this.

If the four groups function seriously with a sense of responsibility, review the work every week and assess the progress, and strive to reach the target, we can reasonably hope that the volumes 4,5,6 & 7 can be completed in less than three years time and in the next three years volumes 8,9, 10 & 11 can be brought out

The heads of the groups should meet together every week and review the work of each group. The reluctance and idifference against team work should not be tolerated. The Editor should send monthly reports to the Vice-Chancellor indicating the steps to be

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taken to remove shortcomings and informing the concerned groups about the same.

The personal attention of the Vice-Chancellor will also help the progress of the work.

Once in a month the lexicon staff, as a whole, should review the progress and also discuss their common problems and take suitable decisions.

PRINTING

As per Government order dated 30.7.63, the printing of the lexicon is done in the Government Press, Trivandrum. A scheme has to be devised for printing four volumes simultaneously instead of a single volume at a time. For this the University press also should be equipped for taking up the printing of the lexicon. Thus in the Government press and the University Press together, four volumes may be printed as at the same time.

Within the next one year, the four groups will be able to finish the final editing for one-third of the volume that each takes up. That much matter can be then given for printing.

With this, new responsibilities come upon each group. The help of experienced proofreaders will be required. For this suitable persons will have to be appointed as scribes and proof-readers for particular periods on contract basis. The Editor should be able to make such appointments whenever found necessary, with the concurrence of the Vice-Chancellor. Only then will this scheme meet with success.

The names, of the members of the group that edits a volume should be printed in it. The responsibility and the credit for each volume will be for the respective groups.

The practice hitherto followed of doing editing work in the proofs should not be allowed to continue. Care should be taken to avoid the need for more than three or four proofs. The editing work connected with the printing of a volume should also be for the concerned group. Only after the final editing should the matter be sent to the press.

Thus during the three years from March, 1976 to March 1979, it will be possible to get volumes 4 to 7 printed. The printing of these four volumes can be started in March, 1977 if the facilities are provided for the simultaneous printing of the four volumes.

Any attempt against the non-realisation of this time-bound programme, or delay in its operation or inefficiency in its execution, should be seriously dealt with. The Vice-Chancellor and the syndicate should bestow special attention in this matter.

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If this is followed, during the second stage from March, 1979 to March 1982 it would be possible to complete the work relating to volumes 8 to 11. The printing of the final volumes should start in March, 1980. The dates fixed should be strictly followed upto 1982- Any leniency shown will foster the tendency to slacken.

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U.G.C. LETTER

What the Committee has to say regarding the letter from the U.G.C. dated 7.1.76 to the Vice-Chancellor is what is contained in this report itself. In the opinion of the committee a letter from the Vice-Chancellor stating that the entire work of the lexicon will be over in two stages 1976-79 and 1979-82, will satisfy the UGC which has expressed concern about the present state of uncertainty. If the present report is accepted, a reply in accordance with it, can be sent to the UGC. It will be good if the UGC is kept informed of the progress of the lexicon every six months.

ENCOURAGEMENT

While insisting upon close adherence to the time-bound programme on the part of the staff and taking disciplinary action against them for inefficiency, they should also be given the encouragement they deserve. Although academic status is given to the lexicon staff, the condition that for promotion they should have the qualifications equivalent to those of the teachers, will not be helpful towards speedy work. Work in the lexicon should be considered the principal qualification for promotion. The necessary orders in this connection should be issued.

This is a department in which the changes of promotion are limited on the whole. As such, promotion to the posts of Joint-Editor, Assistant Editor, Sub-Editor and Lexicon Assistant should be from among the members of the Staff with sufficient qualification

As in the case of the other departments, some steps may be taken in this department also to remove stagnation. Protection should be given to the members who are stagnating after a long period of satisfactory service.

UNIVERSITY SHOULD BESTOW ATTENTION

The Syndicate of the University, and the Vice-Chancellor in particular, should bestow special attention in implementing this time-bound programme. This scheme will succeed only if the University shows keen interest in it.

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Immediate action should be taken on the monthly reports of the Editor.

The Vice-Chancellor should visit the office of the Lexicon and make the staff realise the various aspects of this scheme. He should also now and then try to directly ascertain the progress of the work. If this is not possible, a syndicate sub-committee may be entrusted with the task, and immediate decisions may be taken on the basis of its reports.

It will be worthwhile to have a review committee every six-months to report on the work.

Matters should not move at snail's Pace as now. Work should not continue without an awareness of the aim. Instead of the present state of affairs, each group and each individual should have definite responsibilities. Only such a system can bring progress to the lexicon.

SUMMARY OF RECOMMENDATIONS

1. The methods adopted in the preparation of the first three volumes should be completely changed. New methods should be adopted. There should be decentralisation of work.
2. The lexicon staff should be constituted into four groups so as to enable the simultaneous preparation of four volumes.
3. Each volume should be entrusted to one group.
4. The matter scrutinised by each group should be scrutinised again by another group.
5. Four volumes should come out in three years (1976-79). The remaining four volumes should be completed within the next three years (1979-82).
6. The Editor should be empowered to recruit proof readers and scribes on a contract basis when found absolutely necessary.
7. Besides the Government Press, the University Press also should be equipped so as to take up the printing of the lexicon.
8. As a time-bound programme, there should not be any slackness in the preparation of a detailed plan and its execution. The groups should be directed to work in strict compliance with it.
9. There must be some arrangement to review the work every six months.

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(.. 8 ..)

10. The University should extend full support for the execution of the work according to the new system.

11. The present rules should be modified so as to provide promotion possibilities to the lexicon staff.

12. The recommendations in this report may be given effect to from March, 1976, and all measures should be taken to complete the work of the lexicon by March, 1982.

GRATITUDE HOPE

We record our thanks to all those who helped us in the preparation of this report. Our task was much lightened by the attitude of co-operation shown by the Vice-Chancellor, and the Editor and the staff of the Lexicon. We are sure that the recommendations in this report will be accepted and implemented soon by the authorities of the University.

Trivandrum.
24.2.1976.

N. Krishna Pillai

P.T. Bhaskara Panicker

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University of Kerala
TRIVANDRUM

ENCLOSURES REPORT OF THE LEXICON SPECIAL COMMITTEE

No. Ad. D5-1650/75

Dated: 14.8.76.

FROM

THE REGISTRAR

To

The Secretary,
University Grants Commission,
Bahadur Shah Zafar Marg,
NEW DELHI.

Subject: Report of the Lexcon Work special
Committee - forwarding of.

Ref: Your letter No.22/63/54/H/D/D.1(a)
dated 29.6.1976.

Sir,

With reference to your letter cited, I am to inform you that the Syndicate appointed a Special Committee consisting of the members of the Syndicate to consider the recommendations of the review committee referred to in this office letter of even number dated 22.5.1976. The special Committee has recommended the reorganisation of the Lexicon Department for the expeditious releasing of the remaining volumes of the Malayalam Lexicon. The proposal is under consideration of the University.

A copy of the report of the Special Committee is sent herewith for your perusal.

Yours faithfully,

Sd/-
REGISTRAR

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REPORT OF THE LEXICON WORK SPECIAL COMMITTEE

As decided by the Syndicate, We visited the office of the Malayalam Lexicon and had discussions with the staff on the recommendations of the Review Committee appointed by the Vice-Chancellor. We feel that decentralisation of editing work would go a long way to expedite the publication of the remaining volumes. We therefore recommend that the staff of the Malayalam Lexicon may be divided into four groups as proposed in the Annexure to this report. It may be noted that the successful implementation of the Scheme for decentralised editing involves a major reorganisation of the Department and also appointment of additional staff. We also feel that the existing staff may have to be given some incentives like higher status and higher pay. The proposals at Annexure would indicate the details of our proposals for re-organisation of the Malayalam Lexicon Department including promotion of existing staff and creation of new posts.

In making the above proposals we would like to point out that there may be some snags in changing designation of posts or creation new ones because the Lexicon Department has been given academic status and its staff are treated on a par with the University professors, Readers and Lecturers in the matter of qualifications and recruitment. The creation of new posts like Joint Editor can be done ordinarily only with the approval of the Academic Council and the senate. However, this process is likely to take some time and this may cause some delay in the speedy implementation of the proposal under consideration for expediting the publication of the remaining volumes. Therefore, we suggest that the Syndicate may take the necessary action on our recommendations subject to the ratification of action by the Academic Council and the Senate.

On other matters, we fully agree with the recommendation of the review Committee. The progress report of the Lexicon work should be sent to the University in every 4 months.

Sd/- N. Narayanan Nair

Sd/- A. Nizamuddin

Sd/- P. Ramachandran Pillai.

ANNEXURE

33

<u>GROUP I</u>	Editor (1200-1750)	
	Lexicon Assistant - 1 (560-1100)	By promoting the suitable scribe and converting the post of Higher Grade Scribe.
	Drafting Assistant - 1 (465-775)	-do-
	Scribe/Copyist - 1 (Rs.240-445)	Fresh Recruitment (contract)
	Adept Proof Reader - 1 (Rs.495-835)	By promoting a suitable scribe
Group-II	Joint Editor (Rs.1200-1750)	By promoting the present Assistant Editor.
	Sub-Editor - 1 (Rs.600-1250)	By promoting one of the present Lexicon Assistants
	Drafting Assistant - 1 (Rs.465-775)	By promoting one of the present scribes performing the duties by converting the post of one Higher Grade Scribe.
	Scribe/Copyist - 1 (Rs.240-445 - Consolidated Rs.300/-)	Fresh Appointment (contract)
Group III	Assistant Editor - 1 (Rs.850-1450) Vacant post.	To be filled up by promoting one of the present sub-editor
	Sub-Editor - 1 (Rs.600-1250)	By promoting one of the Present Lexicon Assistants.
	Drafting Assistant - 1 (Rs.285-550) (CONSOLIDATED: Rs.350/-)	Fresh Appointment (Contract)
	Scribe/Copyist - 1 (Rs.240-445)	-do-
Group IV	Assistant Editor - 1 (Rs.850-1450)	Vacancy arising from the appointment of Joint Editor to be filled up by promoting one of the present sub-Editors.

...contd.

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Sub-Editor - 1
(Rs.600-1250)

By promoting one of the
Lexicon Assistants.

Drafting Assistant - 1
(Rs.285-550 or
Rs.350/-Consolidated)

Fresh Appointment (Contract)

Scribe/Copyist - 1
(Rs.240-445 or
Rs.300/-Consolidated)

Fresh Appointment (Contract)

LEXICON LIBRARY (GENERAL)

1. Lexicon Librarian - 1
(Rs.495-835) Promoting one of the Higher
Grade Scribes performing the
duties and converting this
Post.
2. Reference Assistant -2
(Rs.465-775) Promoting 2 of the scribes
performing the duties now and
converting their posts.
3. Regional Work Collector
(Rs.465-775) By upgrading the post of
Higher Grade Scribe and
Promoting the present
Higher Grade Scribe performing
the duties.

ADDITIONAL STAFF TO BE RECRUITED AERESH

Drafting Assistants - 2

On Contract

Scribe/Copyists - 4

Fresh Appointment in a
lower time scale.

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Copy of the letter No. Dir/2698 dated 11th August, 1975 from Prof. D.N. Pathak, Director, University School of Social Sciences, Gujarat University, Ahmedabad, addressed to Shri B.R. Kwatra, Assistant Secretary, University Grants Commission Bahadur Shah Zafar Marg, New Delhi.

.....

In response to your letter No. D.O.No. F.2-90/69(D-4a) dated June 25, 1975 to Shri K.C. Parikh, Registrar, I sent you a telegram (text enclosed) dated June, 30, 1975. I now write in continuation of this telegram.

I am to state that specialisation in the study of Political Behaviour, i.e. Modern Political Analysis, Political Sociology and Political Psychology, was offered to students in 1974 but was not availed of by the students. From June 1975 the subject has been taken up by students and is being taught.

As for contemporary Political Theories, we are offering it as a paper for M.A. Part I. Its title is 'Recent Political Thought'.

You will also notice that among the optional subjects offered we have made provision for local Government, with two papers, one on comparative local Government and the other on Panchayati Raj in India.

As regards the study of American Government and Politics, I wish to reproduce below extract from my letter No. Dir/3150 dated 26.7.1973 to Registrar, Gujarat University :-

"In regard to the interest that the Department had in the study of American Politics and Government, the original idea was to have an area study on the United States. Such a proposal was put forward in our discussion with the Visiting Committee of the UGC for the Fourth Five Year Plan but this was not granted and we, therefore, decided to shelve it for the present!"

The details of the papers offered for M.A. Parts I & II are appended herewith for your reference. I hope the above would clarify the position to your satisfaction.

SLK

P.7.0.

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COPY

Enclosure

INLAND TELEGRAM

TYPE : EXPRESS

B .R. KWATRA
ASSISTANT SECRETARY
"UNIGRANTS"
NEW DELHI- 1.

REF YOUR LET D.O. F. 2-90/69(D-4a) JUNE 25th

TO REGISTRAR STOP FACILITIES PROVIDED FOR SPECILISATION IN
MODERN POLITICAL ANALYSIS POLITICAL SOCIOLOGY AND POLITICAL
PSYCHOLOGY AS WELL AS RECENT CONTEMPORARY POLITICAL THOUGHT
LETTER FOLLOWS

D.N. PATHAK- SAMALVIDYA . . .

(Note to be telegraphed)

Sd/-
D.N. Pathak 30-6-1975
Director
University School of Social
Sciences
Gujarat University
Ahmedabad- 9.

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M.A. POLITICAL SCIENCE SYLLABUS

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M.A. PART - I

(4 Papers)

1. Recent Political Thought (Marx to Present Day)
2. Comparative Political Institutions.
3. Government and Politics of India
4. International Politics.

Part - II

(4 Papers)

Note : Candidates may select any two of the following 10 groups, thus comprising 4 papers of the 2 groups.

Group I :

Ancient Political Thought (2 papers) (offered at Present) . .

1. Greek Political Thought.
2. Indian Political Thought.

Group II

Modern Political Thought (2 papers)

1. European Political Thought
2. Social and Political Thought in Modern India.

Group III:

Public Administration (2 papers)

1. Public Administration
2. Public Personnel Administration.

Group IV

Local Government (2 papers)

1. Comparative Local Government
2. Panchayati Raj in India.

Group V

Emergent Nations- Politics and Development (2 papers)

1. Asia (Independence and After)
2. Africa (Independence and after)

Group VI

Commonwealth and Neighbours (2 papers)

1. The Commonwealth of Nations.
2. India's Neighbours : (Afghanistan, Pakistan, Himalayan Kingdoms, Burma and Ceylon).

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Group VII

Foreign Relations (2 papers) Offered at Present)

1. U.S. Foreign Policy and Soviet Foreign Policy
2. Indian Foreign Policy.

Group VIII :

World Order (2 papers)

1. The United Nations
2. Regionalism in the modern World.

Group IX

Political Behaviour (2 papers)

1. Political Analysis : Concept and Tools
2. Political Psychology & Political Sociology.

Group X

Statistics and Political Geography (2 papers)

1. Principles of Political Geography
2. Social Statistics.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22nd September, 1976

Item No. 6: To consider further the question of eligibility of Law Colleges, Colleges of Physical Education, Home Science Colleges, School of Social Work, Colleges of Fine Arts and Music etc. for assistance under 1.5 lakh scheme.

The University Grants Commission in March, 1975 considered the question of providing assistance for development programmes to teachers' training colleges during the fifth Plan period, and decided that these colleges may be assisted within a ceiling of Rs. 1.5 lakhs as University Grants Commission contribution for fifth plan, and that the minimum enrolment eligibility condition for such colleges be 100 (item No.12).

2. The Commission at its meeting held on 27th and 28th October, 1975 considered the question of eligibility of Law Colleges, Colleges of Physical Education, Home Science Colleges, School of Social Work, Colleges of Fine Arts and Music etc. for assistance under the Rs. 5 lakhs scheme and agreed that the assistance to these Colleges in the fifth Plan may be provided on the same basis as far teachers' training colleges i.e., with an upper limit of Rs. 1.5 lakhs as University Grants Commission share (Item No. 10). The decision of the Commission was conveyed to the Universities/Colleges for implementation.

3. While inviting proposals from these Colleges, the following guide lines were conveyed to these Colleges :-

i) Teachers' Training Colleges :

The Minimum enrolment eligibility condition for Teachers' Training Colleges to take up development programmes would be 100 students (the condition regarding the minimum strength of the suitably qualified permanent teachers was not conveyed).

ii) Law Colleges, Colleges of Physical Education etc.

These Colleges should have minimum enrolment of 400 students excluding Pre-university/pre-degree/ Intermediate classes and staff of atleast 20 suitably qualified permanent teachers. In the case of Colleges providing two years degree courses, the minimum required enrolment will be 270 and atleast 15 suitably qualified permanent teachers. (This condition is the same as applicable to Arts, Sciences and Commerce Colleges).

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4. Subsequently the Commission in the light of the decision taken in the case of Teachers' Training Colleges (Para 1 above) decided that the eligibility condition in respect of students enrolment for obtaining financial assistance for Law Colleges, Colleges of Physical Education etc. etc. may be brought down from 400 in respect of Three year degree courses and 270 for two year degree courses to 100 (for all such types of colleges irrespective of the duration of the courses) and this was conveyed to the concerned colleges.

5. It appears from the above that while the Commission has laid down the students enrolment condition in respect of Teachers' Training Colleges and on the same analogy for Law Colleges, Colleges of Physical Education, Home Science Colleges, Schools of Social Work, Colleges of Fine Arts and Music etc., no condition in respect of minimum staff strength of suitably qualified permanent teachers was laid down by the Commission for such Colleges. Subsequently, while considering the question of institution of Readership in single faculty colleges, the Commission decided that such colleges should have an enrolment of atleast 100 in degree classes and above; a Faculty of atleast 10 teachers and students- teacher ratio of 10:1 (UGC meeting April 29, 1976, Item No. 15).

6. The Commission has now received representations from Sri Ramakrishna Mission Vidyalaya, Maruthi College of Physical Education Coimbatore and Bombay University (Annexure, I and II). The following points have been raised in the representations :-

(a) There are about 24 colleges of Physical Education in our country which train pupils in the degree or diploma courses. Out of these, three colleges namely Lakshmbai National College of Physical Education, Gwalior, Punjab Government College of Physical Education, Patiala and Harman Vyayan Mandali College of Physical Education, Anravati, are running three year degree course (B.P.E) and they have the strength of 100 pupils in the B.P.E. degree course (two years put together). The rest of the colleges of Physical Education in India i.e., twenty one are conducting one year degree course in Physical Education B.P.Ed. just like B.Ed degree in Education. The basic qualification for admission into the B.P.Ed. degree is a basic degree in Arts or Science. All the colleges of Physical Education, which conduct one year B.P.Ed degree course, are having the strength of less than 100 students in the degree course. Hence about 21 out of 24 colleges in India are unable to get assistance from the UGC for the development of degree course in view of the assistance of the rule regarding the minimum strength in the degree course.

(b) Under the requirements of Bombay University, a Law College is required to have at least one full-time teacher (Professor) besides the Principal of the college. The rest of the

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teachers are part-time teachers drawn from the legal profession. The Law colleges do not, therefore satisfy the criterion regarding the minimum number of permanent teachers of being eligible for assistance.

(c) The College of Home Science affiliated to Bombay University imparts instruction for the B.Sc. (Home Science) degree course which is of three years' duration after the First Year Science examination. The College has a staff as per the requirements of the University but does not have a staff of 20 teachers, Similarly, the College of Social work, Goa College of Arts, Nalanda Nritya Kala Mahavidyalaya and the Government College for Physical Education which are affiliated to this University for teaching courses of study leading to the B.S.W., B.F.A. (Painting), B.F.A. (Dance) and the B.Ed. (Physical) Degree, respectively, do not have a staff of 20 teachers.

The matter is placed before the Commission for consideration whether (a) the prescribed minimum strength of permanent teachers in the case of teachers' Training Colleges, Law Colleges, Colleges of Physical Education etc. etc. reviewed, and (b) whether the minimum enrolment condition for the Colleges of Physical Education having one year course may be reviewed.

D.S.(C.P)

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A copy of Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education letter No. PED.F.75/76 dated July 13, 1976. Addressed to the Secretary UGC, New Delhi from Principal Ra Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education

Subject : Grants to Colleges with innovative educational programme and professional colleges for general programme of development during the 5th Plan period- Requesting to change the condition of minimum strength of the college- Regarding.

Ref: letter No.F.34-3/76(D-I/C) dated 8.7.1976 .

In the letter cited above, the University Grants Commission has stated that the Commission is not in a position to extend the assistance for the development of B.P.Ed. Degree Course as the college does not fulfill the condition of minimum strength of 100 pupils in the undergraduate course. From the information gathered for this purpose, it is revealed that none of the colleges of Physical Education with one year degree course fulfill this condition of minimum strength. Please see the appendix enclosed.

There are about 24 colleges of Physical Education in our country which train pupils in the degree or diploma courses. Out of these, three colleges namely Lakshmi Bai National College of Physical Education, Gwalior, Punjab Government College of Physical Education Patiala and Human Vyayan Mandal College of Physical Education, Anravati, are running three year degree course (B.P.E) and they have the strength of 100 pupils in the B.P.E. degree course (three years put together). The rest of the colleges of Physical Education in India i.e. twenty one are conducting one year degree course in Physical Education B.P.Ed. just like B.Ed. degree in Education. The basic qualification for admission into the B.P.Ed. degree is a basic degree in Arts or Science. All the colleges of Physical Education, which conduct one year B.P.Ed. degree course, are having the strength of less than 100 students in the degree course. Hence about 21 out of 24 colleges in India are unable to get assistance from the U.G.C. for the development of degree course in view of the insistence of the rule regarding the minimum strength in the degree course.

The Physical Education is a new faculty which had been started during the last two decades in our Indian Universities. There is great need for assistance for the development of this faculty in order to suit this to Indian condition and culture. The Physiology, Physio-therapy and Exercise therapy Laboratories have to be developed to conduct research for the sake of new knowledge as well as for the requirement of the Post-graduate degree. The Libraries have to be made up-to-date with latest publications and journals etc. The assistance from U.G.C. will help to a great extent in the development of the facilities mentioned above. The condition regarding the minimum strength of the students namely 100 is at present preventing these colleges from getting any assistance from the U.G.C. Hence it is requested that U.G.C. should kindly consider the relaxation of this rule in case of the colleges of Physical Education which are conducting one year degree

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course namely B.P.Ed, degree course or diploma course affiliated to the University. Unless this is done, majority of the colleges of Physical Education namely 21 out of 24 colleges in India will be denied the benefit of assistance. In view of good number of colleges lacking the minimum strength of students and requiring assistance for the development of degree programmes in the form of Libraries, Laboratories, (Building and Equipments) etc. the U.G.C. is requested to kindly drop the condition regarding the minimum strength and that the commission should kindly make its assistance available to these colleges of Physical Education irrespective of the strength of the students in the degree course.

We hope that the University Grants Commission will consider the facts presented above and make a favourable decision soon.

SRI RAMAKRISHNA MISSION VIDYALAYA *Enclosure*
MARUTHI COLLEGE OF PHYSICAL EDUCATION COIMBATORE-641020 (44)

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STATEMENT SHOWING THE STRENGTH OF STUDENTS IN DEGREE COURSES IN VARIOUS COLLEGES
IN INDIA

S.No.	Name of the Institution	Courses offered	Strength of Courses		
			1973-74	1974-75	1975-76
1.	University College of Physical Education, Bangalore.	B.P.Ed. M.P.Ed.	82 15	84 16	61 15
2.	Govt. College of Physical Education, Jodhpur.	Diploma	42	40	60
3.	Shri Chhotubhai Purani Vyayam Mahavidyalaya, Rajpila	Diploma	35	45	49
4.	Sheth C.N.Vyayam Vidyabhavan, Ahmedabad-6	Diploma	46	51	48
5.	University College of Physical Education, Mysore-5	B.P.Ed. M.P.Ed.	24 -	25 10	12 10
6.	Beynon-Smith College of Physical Education. Belgaum.	B.P.Ed.	35	41	38
7.	Alagappa College of Physical Education, Karaikudi.	B.P.Ed. M.P.Ed.	75 18	72 15	65 25
8.	Y.M.C.A. College of Physical Education, Madras.35	B.P.Ed. M.P.Ed.	58 18	56 12	53 15
9.	Shri Shivaji Adhyapak Vidyalaya, Islampur.	Diploma	132	127	80
10.	N.S.S. Maha Vidyalaya Nagpur.	B.P.Ed.	76	70	83
11.	Sri Ramakrishna Mission Vidyalaya, Maruthi College of Physical Edn. Coimbatore-641020.	B.P.Ed. M.P.Ed.	24 7	25 8	30 8
12.	Department of Physical Education, Annamalai University	B.P. Ed.	-	40	40

V.B. The information on the strength of students for other Colleges will be sent to the U.C.C. soon after it is received from the colleges.

Principal.

University of Bombay letter No. APD/82/14 of 1976 dated 16th June, 1976
Addressed to the Secretary U.G.C. from the Registrar University of Bombay
regarding : Financial Assistance to Law Colleges/Colleges of Physical
Education/Home Science Colleges/Schools of Social Work/Colleges of Fine
Arts and Music etc. for their development during the Fifth Plan period.

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Please refer to your D.O. letter No. F.7-1/74(CP), dated 24th
February, 1976, on the above subject, stating that the minimum enrolment
of students in the abovementioned colleges should be 100 in order
to be eligible to seek financial assistance from the Commission for
development schemes during the Fifth Plan period under Rs. 1.5 lakhs
scheme.

2. In this connection, I am to point out that under the requirements
of this University, a Law college is required to have at least one full
time teacher (Professor) besides the Principal of the college. The
rest of the teachers are part-time teachers drawn from the legal pro-
fession. The Law colleges do not, therefore, satisfy the criterion
regarding the minimum number of permanent teachers for being eligible
for assistance.

3. The College of Home Science affiliated to this University
imparts instruction for the B. Sc. (Home Science) degree course which is of
three years' duration after the First Year Science examination. The
college has a staff as per the requirements of the University, but does
not have a staff of 20 teachers. Similarly, the College of Social Work,
Gya College of Art, Nalanda Nritya Kala Mahavidyalaya and the Government
College for Physical Education which are affiliated to this University
for teaching courses of study leading to the B. S.W., B.F.A. (Painting),
I.F.A. (Dance) and the B.Ed. (Physical) degrees, respectively, do not
have a staff of 20 teachers.

4. In the circumstances, I am directed by the Vice-Chancellor
to request you kindly to move the Commission to consider these
colleges eligible to receive assistance for their development schemes
during the Fifth Plan period.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION
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Meeting :

Dated : 22nd September, 1976.

Item No.7 : To consider the question of relaxing the minimum eligibility condition for the award of Junior fellowship in favour of the candidates belonging to Schedule Caste/Scheduled Tribes.

With a view to providing opportunities to research students and teachers to undertake advanced studies and research in Sciences and Humanities including Social Sciences, the Commission has instituted 50 Junior Research Fellowship to be awarded to Scheduled Caste/Scheduled Tribes candidates during the year 1976. This is in addition to 10 per cent of the fellowship reserved for such candidates out of 250 general Junior Research Fellowships. The value of fellowship is Rs. 400/- per month for the first two years and Rs. 500/- per month for another two years subject to the work being found satisfactory on assessment. The Junior Research Fellowships carry contingent grant of Rs. 1500/- per annum for approved contingent expenditure. The fellowships are open to participants preferably below the age of 30 who have obtained the Master's degree of a recognised university in the first or second division (with at least 55 per cent marks or atleast B plus in the grade system. A copy of rules and application form is enclosed as Annexure I.

A letter has been received from Prof. P.R. Brahmananda, Director, Deptt. of Economics, University of Bombay with the request that the eligibility condition of 55 per cent marks or equivalent grade in 7 point grade system may be relaxed in favour of Scheduled Caste and Scheduled Tribes candidates, as from experience it has been found that very few Scheduled Caste Students are able to obtain 55 per cent marks at Postgraduate examinations. He has suggested that this eligibility marks of 55 per cent and above may be brought down to 50 per cent and above. A copy of the letter received from Prof. Brahmananda is attached as Annexure - II.

The commission has also received the following recommendations from the Ministry of Home Affairs made in the Conference of State Ministers regarding quantification of the benefits to be made available to the Scheduled Caste.

"With regard to the Scheduled Castes also important decisions and significant recommendations were made by the Conference of State Ministers referred to above. Each Department should examine the schemes in the general sector and quantify the benefits which should be made available to the Scheduled Castes. In making such quantification the eligibility conditions should also be relaxed in favour of these communities so that they can take advantage of the programmes. Such quantification should be made at the time of planning and budgeting. There should be a cell in the planning/Finance Department to collect information about the amounts quantified and the Finance Department should clear the annual budgets of the Department concerned only if such quantification has been made and the previous years performance in this regard reviewed."

The matter is placed before the Commission for consideration.

AS(RF)/J.S.(II)

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UNIVERSITY GRANTS COMMISSION

**Application form for Junior Research Fellowships in Sciences/Humanities including Social Sciences
(To be awarded to Scheduled Castes/Scheduled Tribes)**

(The form must be filled carefully. Incomplete form is liable to be rejected)

1. Name (IN BLOCK LETTERS with surname underlined)
State Dr./Shri/Smt./Kumari :
2. Date of birth :
3. Nationality :
4. Father/Husband's name (Strike off one not relevant) :
5. (a) Present Address :
(b) Permanent Address :
6. State name of the Caste/Tribe; Scheduled Caste/Tribe :
7. Particulars of Educational qualifications—starting with Matriculation onward. (Please attach attested copies of mark sheets, certificates, diplomas etc. and give a reference in the last column) :

Examination passed and the year of passing	School/College/University	Subject Offered	Division/Grade	Percentage of marks/Cumulative grade point	Encl. No.

8. (i) Please indicate whether you propose to work in a Postgraduate College having adequate facilities for such research work.

(ii) Name of the Department, College/University where you propose to do research :

(a) Department :

(b) College/University

9. Give particulars of the Research problem :

a) Subject :

b) Specialisation within the subject :

c) Title of Research Problem :

(A brief abstract not exceeding 500 words on the proposed research work, methods of approach, etc. must be sent along with the application, without which the application will be treated as incomplete).

(i) Name and designation of the Supervisor with whom the research is proposed to be undertaken :

10. Please State :
- (a) Whether you are already registered or propose to register for M. Phil. or for research work, leading to award of a doctorate degree :
 - (b) Date of Registration :
 - (c) Name of the University :
 - (d) Topic of Research, if any :
 - (e) Name and Designation of the Supervisor, if any :
 - (f) Details of papers published (if any) with a copy each of the reprints. Details of publications may be given on a separate sheet of paper.
11. Present Occupation (if employed, indicate the nature of employment and emoluments drawn per month) :
12. Do you suffer from any physical disability ? If so, please give details:
13. Any other information relevant to the research work, which you may like to give in support of your application :
14. List of enclosures :
- 1.
 - 2.
 - 3.
 - 4.
 - 5.

Declaration

I hereby declare :

That I have read the rules regarding the award of Research Fellowship of the University Grants Commission and in the event of a Fellowship being awarded, I undertake to engage myself whole time for work on the subject under the direction of the supervisor during the tenure of fellowship. I further declare that to the best of my knowledge and belief, the particulars given in the form are correct.

Place :

(Signature of the Candidate)

Date :

For use by University/College

It is certified that necessary facilities will be provided for the work of _____
Recommendation of the forwarding authority ; (Views of the Supervisor/Head of the Department regarding the candidate's suitability for the award should be obtained separately and enclosed with the application).

Place :

Signature

Date:

Registrar/Principal

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002

Rules for award of Junior Research Fellowships in Sciences and Humanities (including Social Sciences)
(To be awarded to Scheduled Castes/Scheduled Tribes)

1. Purpose of the Award

To provide an opportunity to research students and teachers to undertake advanced study and research in Sciences and Humanities (including Social Sciences).

2. Value

The value of Junior Research Fellowship is Rs. 400/- p.m. for the first two years. At the end of two years, the work done by the Fellow will be assessed and if his work is judged to have been good, he will be awarded a fellowship of Rs. 500/- a month for another two years. The Junior Research Fellowships carry a contingency grant of Rs. 1500/- per annum for approved contingent expenditure.

The fellowship and contingency grants are exempt from income tax.

3. Eligibility

Junior Fellowships are open to persons preferable below the age of 30, who have obtained a 'master's' degree of a recognised university in the first or second division (with at least 55% marks) or at list B+ in the grade system.

4. Conditions of Award

(a) The fellowships are tenable at any university/college or institution approved under the University Grants Commission Act.

(b) The fellow will do whole time research work under the approved guide in a subject selected by him and approved by the University.

(c) The fellow shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipend etc. from any other source during the tenure of the award. The Junior Research Fellows are required to undertake up to four hours a week teaching assignment, e.g. assisting in tutorials, evaluation of test papers, laboratory demonstration work, etc. which would help them in future as teachers.

(d) The fellow shall present, through his Supervisor, half yearly report on the progress of his work. He shall before the expiry of the fellowship, present a comprehensive report and supply to the Commission free of cost a copy of published work if any and abstract in about 500 words of the research work done during the tenure, of fellowship.

(e) If a fellow wishes to leave the fellowship before the end of the tenure, it should be done with the prior approval of the Commission. He should also obtain prior permission of the Commission for appearing at any examination conducted by any university or public body.

(f) Junior Research Fellowship will be tenable for a period of four years, extendable by six months in special cases. After two years of the tenure, the performance of all Junior Research fellows (including those under the Junior Research Fellowship scheme being implemented by the universities) may be assessed by the University Grants Commission. On assessment if it is found that the fellow lacks research potential the fellowship may be terminated. In case of a research fellow who has displayed research ability but not achieved significant progress he may be given an extension for a period of one year and at the end of the three-year period his research work would be subjected to a further assessment; and only if report is found to be satisfactory, he would be given further extension of one year. The fellowship could be withdrawn if the work is considered unsatisfactory.

(g) The Commission may terminate a research fellowship at any time if not satisfied with the progress or conduct of the fellow.

5. Leave

(a) Leave for a maximum period of thirty days in a year in addition to general holidays, may be taken by a fellow with the approval of the Supervisor. The general holidays, however, do not include the vacation period e.g. Summer, Winter & Pooja Vacations. The women awardees would be eligible for maternity leave at full rates for a period, not exceeding three months, once during the tenure of their award.

(b) The fellow may, in special cases, be allowed by the Commission leave without fellowship upto one academic year during the entire tenure of the fellowship for purposes of accepting teaching assignment on a temporary basis provided the post accepted by them is in same department, or in an institution located in the city. In other cases not exceeding three months during the tenure of award on the recommendations of the supervisor and the institution concerned. The period of leave without fellowship will count towards the tenure of fellowship.

6. Selection

The selection of research fellows will be made on merit and on the recommendations of a Selection Committee appointed by the Commission for this purpose. The selection will be made once a year before the end of September each year. The decision of the Commission shall be final.

The results of the selection will be announced through a press note in the leading newspapers of the country and only selected candidates will be informed individually.

7. Reservation

Ten per cent of the fellowships are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes provided they fulfil the minimum qualification laid down for the award. In case qualified candidates are not available, reserved fellowships may be treated as unreserved. . .

8. Payment

Payment of the fellowship amount will be made to the institution concerned for the period ending March each financial year for disbursement to the fellow in the first week of every month.

9. Application for Award

Application for award in the prescribed form duly completed by the candidates alongwith necessary enclosures should reach the Secretary, University Grants Commission, Bahadur Shah Zafar Marg, New Delhi-110002, through the university or institution where the candidate desires to work.

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Annexure II to Item No. 7

Copy of letter No. B-3/2313/76 dated 22 June, 1976
received from Bombay University addressed to Secretary,
University Grants Commission.

As you are aware, the University Grants Commission awards a number of Ph.D. Fellowships for post-graduate students. I learn there is a stipulation that Scheduled Caste students would be preferred provided they qualify by obtaining 55% of marks. It would be a better practice if Scheduled Caste candidates obtaining say 50% and above marks, but less than 55% of marks, are permitted to be considered on par with other candidates for the award of fellowships. Our experience is that very few Scheduled Caste Students are able to obtain 55% and above marks at post-graduate examinations. In fact we have one good student with us, belonging to the Scheduled Caste groups, who was disqualified this year for University Grants Commission fellowships on the ground that he could not obtain 55% of marks at M.A. We find that he is a keenly motivated student with an intention to pursue higher research. May I request you that Scheduled Caste students obtaining 50% and above, but less than 55% of marks are considered on par with the non-Scheduled Caste students obtaining 55% and above, for the purpose of awarding the fellowships? In view of the pronounced policy of the Government to give benefit to the Scheduled Caste students, a change in the UGC's procedure may be of considerable help. I hope my suggestion will merit favourable response.

With regards

_ Sd/- xxx
P.R. Brahmananda.

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Confidential

UNIVERSITY GRANTS COMMISSION

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Meeting:
Dated : September, 1976

Item No. 8: To consider the references received from the Osmania and Andhra Universities regarding reservation for Scheduled Castes and Scheduled Tribes for teaching posts.

The University Grants Commission at its meeting held on 14-15th July, 1975 considered the recommendations made by the Committee of Vice-Chancellors of Central Universities at its meeting held on 23rd May, 1975 regarding reservation of posts of various categories in the Central Universities to persons belonging to Scheduled Castes and Scheduled Tribes communities. (Item No. 36).

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

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

The above decision of the Commission was conveyed to the Vice-Chancellors and the Education Secretaries for guidance. The Universities of Osmania and the Andhra have drawn the attention of the University Grants Commission to the Government of India (COMs) No. 1793 - Education dated 23rd September, 1970 which, inter alia, includes reservation for appointments to all teaching posts i.e. Professors, Readers, Lecturers for persons belonging to the Scheduled Castes, Scheduled Tribes candidates and backward classes.

An extract from the letter received from Vice-Chancellor, Osmania University is reproduced below:-

"Please refer to your letter dated F. 1-46/75 (CP) dated 26.8.1975 regarding the reservations of appointments in the posts of Lecturers for Scheduled

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castes and Scheduled Tribes. That letter clearly states that the Commission has agreed in principle that reservations may be provided for scheduled castes and scheduled tribes for recruitment to the posts of lecturers in the Universities and Colleges and that is further of the view that no teaching posts should remain vacant for long periods. Such reservations may not be operated on the roster system nor the reserved posts be carried forward from year to year. This letter was placed before the Syndicate of the University, which at its meeting on 27th and 28th January, 1976, noted its contents. After I took charge as the Vice-Chancellor in January, 1975, I was confronted with a prior decision of the Syndicate which applied the Government Order (G.O.Ms) No. 1793, Education, dated 23.9.1970 Education, dated 23.9.1970 to recruitment to all the posts in the University services and in November, 1974 recruitment to all services posts was clarified to include all teaching posts viz., Lecturers, Readers and Professors (G.O.Ms. enclosed Annexure-I). If the decision of the Syndicate is implemented, the reservation will not be confined only to scheduled castes and scheduled tribes and to the lecturers posts, but it has to be extended only to the backward classes but to all the three categories for the posts of readers and professors viz., to the extent of 43% of the recruitment of lecturers, readers and professors. The Andhra University has applied reservation to scheduled castes and scheduled tribes for recruitment to all the teaching posts viz., lecturers, readers and professors, where there is direct recruitment. The Sri Venkateswara University, however, has confined the reservation to only scheduled castes and scheduled tribes for recruitment of lecturers. In the circumstances, since the maintenance of academic standards is within the legislative powers of Parliament under List I as such within the purview of the University Grants Commission. I would like to ascertain your views as to whether U.G.C. is in favour of making reservation apart from reservations for the scheduled castes and scheduled tribes, to backward classes in the lecturers posts, to scheduled castes, scheduled tribes and backward classes for posts of readers and professors. If it is in favour, how is this rule to be implemented if there is only one post of a professor in a subject? How is the reservation of 18% for scheduled castes and 4% scheduled tribes and 25% for backward classes to be implemented. A similar problem will also arise

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in respect of Readers posts. I will be grateful if you can let me know what the U.G.C. would want the University to do in these circumstances. I understand the Andhra University is also referring to you a similar question."

A similar reference has also been received from the Andhra University for the views of the Commission (Annexure-II).

The Commission in April 1976 received a communication from the Commissioner for Scheduled Castes and Scheduled Tribes regarding reservation of Scheduled Castes and Scheduled Tribes in teaching posts in Universities/Colleges. An extract from the letter received from the Commissioner in this connection is reproduced below:-

"According to the instructions issued in your letter No. F. 1-46/75(CP) dated the 28th August, 1975, addressed to all the Vice-Chancellors, the University Grants Commission have agreed in principle only that reservation may be provided for Scheduled Castes and Scheduled Tribes for recruitment to the post of Lecturer. Moreover, the decision has simply been communicated to the Universities for guidance only. The Commissioner for Scheduled Castes and Scheduled Tribes strongly feels that a firm directive should be issued to all the universities which should be obligatory on their part. Besides, unless a proper methodology to follow reservation principle is prescribed, no useful purpose is likely to be served.

I shall, therefore, be grateful if you could kindly place the views of the Commissioner for Scheduled Castes and Scheduled Tribes before the forthcoming meeting of the Committee of Vice-Chancellors scheduled to be held on 28th April, 1976.

The recommendation of the Parliamentary Committee, as indicated in its 42nd Report, that it should be made obligatory for all the Universities receiving grant-in-aid from the Central Government or from the University Grants Commission to adopt and implement all the orders/institutions issued by the Government of India from time to time regarding reservations for Scheduled Castes and Scheduled Tribes, may also please be placed before the proposed meeting."

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The Commission invited the views of the Government of India, Ministry of Law through the Ministry of Education on the following points in the light of the provisions contained in the U.G.C. Act.

1. Whether U.G.C. can issue a directive to universities in particular the State Universities which should be obligatory on their part to provide for reservations for scheduled castes and scheduled tribes for teaching posts.
2. The Parliamentary Committee in its 42nd report has recommended that it should be made obligatory for all the universities receiving grant-in-aid from the State Government from the University Grants Commission to adopt and implement all the orders/instructions issued by the Government of India from time to time regarding reservations for Scheduled Castes and Scheduled Tribes.

The Ministry of Education has informed the Commission that there does not seem to be any power vested to the Commission under U.G.C. Act to issue a directive to the Universities in the matter of reservation for Scheduled Caste and Scheduled Tribes, in their services.

An extract from the communication received is reproduced below:-

*As desired by you, we sought legal advice and we are of the view that there does not seem to be any power vested in the Commission under U.G.C. Act to issue a directive to the Universities in the matter of reservation for Scheduled Castes and Scheduled Tribes, in their services. In so far as Section 14 of the Act empowers U.G.C. to withhold grants to Universities who do not comply with the recommendations made by the Commission under Section 12, 13, 25 and 26 of the Act, the view taken is that grants cannot be withheld on the ground of non-compliance with a recommendation, unless the recommendation is one which can be validly issued under the law. For a recommendation to have a binding force on the Universities and the non-compliance of which can be a cause for action, it should be valid and under the authority of law. A recommendation for reservation of posts for Scheduled Castes/ Scheduled Tribes is not contemplated in Section 14.

In view of the foregoing position, it will not

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be possible for the U.G.C. to issue any directive unless the U.G.C. Act is amended. The position indicated above is being communicated to the Committee on Welfare of Scheduled Castes/Scheduled Tribes in reply to their relevant recommendation, with an assurance that all possible efforts will be made to persuade the Universities to all in file with the Government Departments in the matter of reservations in services. Will you kindly note the assurance being given to Parliamentary Committee."

The mechanics for posts for Central Universities from members of Scheduled Castes/Scheduled Tribes for recruitment to the posts of lecturers in the universities and colleges was laid down by the Committee at the meeting held on June 3-4, 1976 (Annexure-III) on a reference from the Commission, the Ministry of Education and Social Welfare, Government of India has advised that "there should be no objection if the Commission informs the State Universities of Commission's views on the subject as well as the mechanics worked out by it for the Central Universities for their consideration and implementation in their decision. Although it is primarily for the State Governments to enforce reservations for Scheduled Caste/Scheduled Tribe, in teaching posts in State Universities; no class is likely to arise if the Commission merely informs the State Universities of its views." The State Universities have been addressed accordingly.

The matter is placed before the Commission to consider the references received from the universities of Orissa and Andhra for reservation to all teaching posts i.e. Professors, Readers and Teachers vide State Government orders on the subject.

S.O./D.S.(CF)

GOVERNMENT OF ANDHRA PRADESH

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Abstract

Backward Classes- List of Socially and Educationally Backward Classes- Concessions in regard to Reservations in Professional Courses, Services etc. Orders- Issued.

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EDUCATION DEPARTMENT

G.O. Ms.No.1793 Education.

Dated 23.9.1970.

Order:

In G.O. Ms.No. 1880, Education Department dated 29th July, 1966, the Government has drawn up a list of backward classes (other than Scheduled Castes and Scheduled Tribes) and allowed certain concessions in regard to scholarships, reservations in professional colleges and in the Government services etc. for the uplift of the backward classes. This G.O. was challenged through several writ petitions in the High Court of Andhra Pradesh. The High Court allowed the write petitions and struck down the reservations made in professional colleges for the backward classes mentioned in the said G.O. observing that no material or information relevant for determining the backwardness of classes of citizens, like population of each of these classes, percentage of literacy or education, interiority of occupation, social and economic status etc. was available with the Government. The High Court also observed that no person or Commission was appointed together the relevant material or information in respect of the Backward classes and no attempt was made in that direction since 1963 when the then existing list of backward classes was struck down. On appeal, the Supreme Court upheld the above decision of the High Court.

2. The Government, therefore, appointed a Commission in April, 1968, in G.O. Ms.No. 870, Education dated 12th April, 1968, under the Commissions of Inquiry Act, 1952, with the following terms of reference.

(i) to determine the criteria to be adopted in considering whether any sections of citizens of India in the State of Andhra Pradesh (other than the scheduled castes and scheduled tribes specified by notification issued by the President of India under articles 341 and 342 of the Constitution of India) may be treated as socially and educationally backward classes

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and in accordance with such criteria prepared a list of such backward classes setting out also their approximate number and their territorial distribution;

(ii) to investigate the conditions of all such socially and educationally backward classes, and the difficulties under which they labour ; and make recommendations as to the special provisions which may be made by the Government for their advancement and for promotion of their educational and economic interests generally and with particular referent to:

(1) the reservations of seats in educational institutions maintained by the State or receiving aid out of State funds ;

(2) the concessions such as scholarships which may be given by way of assistance ;

(3) the percentage or proportion of such reservation, the quantum of such assistance and the period during which such reservations or assistance may be made or given ; and

(iii) to advise the Government as to the Backward classes of citizens (other than the Scheduled Castes and Scheduled Tribes) which are not adequately represented in the services under the State and prepare a list of all such backward classes and make recommendations as to

(1) the reservation of appointments or posts in favour of such backward classes ;

(2) the percentage or proportion of such reservation and the period during which such reservation may be made.

3. The Commission toured all the districts in the State and also the neighbouring States of Tamilnadu, Kerala and Mysore, collected a mass of evidence and material in respect of the various classes of citizens in the State and in the neighbouring States and brought out a well considered report after having gone into the matter in great detail. The Commission presented its report to the Government on the 20th June, 1970.

4. The report was placed before the State Legislature and also referred to the Andhra Pradesh Regional Committee for their views. In the light of the views expressed by the members of the Legislative Assembly and the recommendations of the Regional Committee, the Government have examined the report in detail and issue the following order:-

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5) The Commission adopted the following criteria for determining the social and educational backwardness of citizens.

(1) The general poverty of the class or community as a whole ;

(2) Occupations pursued by the classes of citizens, the nature of which must be inferior or unclean or undignified and unremunerative or one which does not carry influence or power ;

(3) Case in relation to Hindus ; and

(4) Educational backwardness.

The Government accept the above criteria adopted by the Commission for determining the social and educational backwardness of citizens.

6. On the basis of the above criteria, the Commission has drawn up a list of 92 classes which are socially and educationally backward and classified them into four groups for purposes of reservations as explained in para 8 of this order (vide Annexure-I to this order). The Government accept the list drawn up by the Commission in toto, and accordingly declare that the castes and communities specified in the Annexure-I to this order are socially and educationally backward classes for purpose of Article 15(4) of the Constitution of India.

RESERVATION OF SEATS IN PROFESSIONAL COURSES.

7. The Commission has recommended that 30 percent of seats in professional colleges should be reserved for the backward classes.

At present certain percentage of seats in professional colleges are already reserved for certain special groups like Scheduled Castes, Scheduled Tribes, Physically handicapped P.C.C., candidates etc. who also require special protection considering that the total reservations should not exceed 50 percent it is found that it will not be possible to fix reservation of seats in the professional colleges for the backward classes at 30 per cent as recommended by the Commission. In order that the total reservations for all the special groups do not exceed 50 percent, the Government have decided that 25 percent of seats in professional courses (other than Post-graduate courses) should be reserved for

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the backward classes and the scheme of reservation of seats in the various professional courses shall be revised as follows:-

A. Medical Colleges in the State.

1.	2.	3.
1.	Scheduled Castes.	14%
2.	Scheduled Tribes.	4%
3.	Backward Classes.	25%
4.	N.C.C. Sports and Children of Ex-servicemen and Armed personnel.	4%
		47%

Note:1. The total available seats in the medical colleges will be earmarked between men and women in the ratio of 70:30 and the reservation provisions in favour of the schedule castes, the scheduled tribes and backward classes, etc., as indicated above will be applied separately to the seats so earmarked.

Note:2. The existing provision regarding reservation of seats for candidates nominated by the Government of India will continue.

B. Engineering, Technological and Technical Courses.

1.	2.	Colleges in Andhra Area. 3.	Colleges in Telangana Area. 4.
1.	Other States and countries.	3%	--
2.	Scheduled Castes.	14%	14%
3.	Scheduled Tribes.	4%	4%
4.	Backward Classes.	25%	25%
5.	Physically handicapped.	1%	1%
6.	N.C.C. Sports and Children of Ex-service-men and armed personnel.	1%	4%
Total:		48%	48%

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C. Agriculture, Veterinary & Home Science Colleges in the State.

1.	2.	3.
1.	Candidates sponsored by the Government of India.	2%
2.	Scheduled Castes.	14%
3.	Scheduled Tribes.	4%
4.	Backward Classes.	25%
5.	N.C.C. Sports.	1%
6.	V.L.Ws or V.L.Is.	1%
7.	Self supporting foreign students, candidates from other State & Defence personnel.	1%
Total.		<u>48%</u>

Note: The special reservation for the Scheduled Castes, Scheduled Tribes, Backward Classes etc., as shown above will be applied separately for the special quota of 25 percent of the seats earmarked for the agriculturist families and for the general quota of 75 percent.

8. With a view to give equal opportunities for backward classes in professional colleges and adequate representation in services, the Commission has classified the backward classes into four groups as indicated below and has recommended that the 30 percent reservation of seats for the backward classes in the professional colleges may be distributed among the four groups as shown against each.

(A) Aboriginal Tribes, Vimukthe Jathis, Nomadic, Semi-homadic Tribes etc.	7%
(B) Vocational groups.	13%
(C) Harijan Converts.	1%
(D) Other Classes.	9%

The Government agree in principle to the classification of the Backward Classes into four groups as recommended by the Commission and direct that on the basis of population of these four groups, the 25 percent reservation of seats in professional courses decided upon by the Government be apportioned among the four groups as shown below:-

Group A.	7%
Group B.	10%
Group C.	1%
Group D.	7%

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9. The Commission has recommended that the reservation of seats should be over and above the seats obtained by the Backward Classed candidates in the open competition. The Government agree that the candidates selected in the open competition need not be counted against the reserved quota ; but it is not desirable to select candidates in two compartments, one for the general pool and the other for the reserved quota, as this would cause hardship to the candidates belonging to the other communities. In order to protect the interests of the backward classes and at the same time without causing prejudice to the interests of the candidates belonging to other communities, the Government direct that the following procedure be adopted for selection of candidates belonging to candidates for the reserved seats in the professional courses.

A list of all candidates will be prepared strictly in the order of merit. From this merit list selections will be made in the order of rotation specified in Annexure-II for various faculties.

When no suitable candidate for a seat reserved for any particular group of backward classes, is available, that seat will accure to the next group in the order of rotation. Only if no suitable candidate should be available in any of the four groups, then that seat will lapse to the general pool.

10. The reservation of seats for the backward classes will not apply to the Post-Graduate professional courses.

11. The Government accept the recommendation of the Commission that the reservations shall be in force for a period of ten years in the first instance, i.e. upto the end of the academic year 1980-81 and the position reviewed thereafter.

12. Suitable amendments to the rules of admission into various professional courses will issue separately from the administrative departments concerned.

RESERVATION IN SERVICES

13. The Commission has expressed the view that all the classes listed by them as socially and educationally backward under Article 15(4) of the Constitution are not adequately represented in services under the State. The Government accept the view of the Commission and consider that all the said classes are not adequately represented in the services under the State.

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14. The Commission has recommended that 30 percent of posts in State and Subordinate Services must be reserved for the backward classes and that this 30 percent reservation may be allocated among the four groups as follows:-

Group (A)	...	7%
Group (B)	...	13%
Group (C)	...	1%
Group (D)	...	9%

As in the case of reservation of seats in professional courses, the Government direct 25 percent of posts or appointments in the State and Subordinate Services be reserved for the backward classes. The scheme of reservation in services for the special groups shall be revised as follows:-

1. Scheduled Castes.	14%
2. Scheduled Tribes.	4%
3. Backward Classes.	25%
4. E.C.Os.	2%
5. Physically Handicapped.	3%

The 25 percent of reservation of posts or appointments made in favour of the backward classes shall be allocated among the four groups as shown below on the basis of population, distribution of posts among the four groups:-

& an order of sub rotation shall be fixed for equitable

Group (A)	7%
Group (B)	10%
Group (C)	1%
Group (D)	7%

15. The following procedure shall be adopted for recruitment to the reserved posts or appointments.

A list of successful candidates will be prepared strictly in the order of merit. From this merit list, appointments will be made in the order of rotation specified in Annexure.III.

When no suitable candidate is available for the post reserved for any particular group of backward classes that post will accrue to the next group in the order of rotation and only if no suitable candidate should be available in any of the four groups, then the reserved post would lapse to the general pool.

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16. The Commission has recommended that the reservations should be made applicable for recruitment to posts under Zilla Parishads, Municipalities and Panchayat Samithis also. The Government agree with this recommendation and direct that the scheme of reservation of posts for the backward classes shall be made applicable to the posts under the local and other authorities under the control of the State Government.

17. The Government also approve the following recommendations of the Commission:-

(i) There is no need to make any provision for carrying forward of unfilled vacancies reserved for the B.Cs.

(ii) The candidates who are recruited/selected on merit in open competition should not be counted against the reserved number of posts/seats. (This recommendation is accepted to the extent specified in paragraphs 9 and 15).

(iii) The reservations for Backward Classes in services may be made for a period of ten years in the first instance, and the position reviewed thereafter.

(iv) The Government may prevail upon the public undertakings to give representation for backward classes in the services of those undertakings.

(v) It is neither necessary nor desirable to provide reservation for promotions.

18. The Commission has recommended that the upper age limits prescribed in the special rules for entry into Govt. services shall not be applied generally in the case of backward classes in the following cases:-

(1) If the qualified prescribed for recruitment was lower than the degree of B.A. or B.Sc., of a University or any other degree recognised as equivalent to such a degree and the backward classes candidates possessed educational qualifications higher than the minimum general educational qualification ;

OR

(2) The backward classes candidates held a degree of a University within the State or any other degree recognised as equivalent to such a degree.

Where the above concessions do not apply, the Commission has suggested that the candidates belonging to the backward classes should be given the benefit of five years over the

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maximum age limit prescribed for the others. However, for direct recruitment to posts for which the maximum age limit was 40 years and over, the commission has considered that the above mentioned age concession of 5 years in the upper age limit need not be allowed.

The above recommendations of the Commission were based on General Rule 12 which was in force when the list of backward classes was in existence prior to 1964. This rule had since been amended in G.O. Ms.No.1073, General Administration Department, dated 25.9.1964, according to which the maximum age limit prescribed in the special rules shall be raised uniformly by 5 years in the case of candidates belonging to the Scheduled Castes, the Scheduled Tribes and aboriginal tribes, provided that no such age concession shall be allowed for direct recruitment to the posts for which the maximum age limit is 40 years or above. The Government consider that the unlimited age exemption given earlier is not desirable and hence they have decided that the age concession of 5 years given for the scheduled castes and the scheduled tribes for purposes of recruitment, be extended to the backward classes also.

19. Necessary amendments to the General Rules and Special Rules will issue from the concerned administrative department.

20. The Commission has recommended that a separate Directorate of Backward Classes with a senior Officer as the Head of the Department should be created to take care of the problems of the backward classes. The Government consider that for the present it is enough to appoint an officer of the grade of Joint Director in the Directorate of Social Welfare to be in charge of the work relating to Backward classes. (A special cell will be created in the General Administration Department to deal with the matters relating to Backward Classes.) A special cell will be created at the General Pool Administration Department to deal with the matters belonging to backward classes. Half-yearly reports on the special provisions for the Backward Classes will be sent to the Andhra Pradesh Regional Committee. Orders in this regard will issue separately from the General Administration Department.

21. The Commission has recommended that enumeration should be made caste-wise atleast from the next census, as caste-wise statistics are not available from 1931 census. The Govt. have already accepted the recommendation of the Commission and addressed the Govt. of India separately.

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22. All the Departments of Secretariat and Heads of Departments are requested to take immediate action to implement the above orders.

23. Orders on the other recommendations of the Backward Classes Commission will issue separately.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

S.R. RAMMURTHY
SPECIAL SECRETARY TO GOVT.

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LIST OF SOCIALLY & EDUCATIONALLY BACKWARD CLASSES
VIDE G.O. Ms. NO. 1793, EDN., DATED 23.9.1970.

GROUP -A.

Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi-Nomadic Tribes, etc.

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1. Agnikulakshatriya, Palli, Vadabaliya, Bestha, Jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriva (Vannekapu, Vannereddi, Pallikapu, Pallireddi), Neyyalla and Pattapu.
2. Balasanthu, Bahurupi
3. Bandara.
4. Budabukkala
5. Rajk (Chakali, Vannar)
6. Dasari (Formerly addicted to crimes and beggary)
7. Dommara
8. Gangiredlavru
9. Jangam whose traditional occupation is begging.
10. Jogi
11. Katipapala
12. Korcha
13. Lambada or Banjara in Telangana area.
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda.
16. Nayi-Brahmin (Mangali)
17. Nakkala
18. Pitchiguntla
19. Pamula
20. Pardi (Mirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu.
23. Veeramushti (Nettikotala).
24. Valmiki boys (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya), Talayari and Chunduvallu.
25. Yerukulas in Telangana area.
26. Gudala.
27. Kanjara-Bhatta.
28. Kinthala Kalinga.
29. Kemmare or Reddika.
30. Mondipatta.
31. Nokkar.
32. Pariki Muggula.
- ... 33. Yata.

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34. Chonamari.
35. Kaikadi.
36. Joshinandiwalas.
37. Odde (Oddilu, Vaddi, Vaddelu).
38. Mandula (Vide Govt. Memo.40/VI/70-Edn., dt.10.2.1971)
39. Mehtar (Muslim) (Vide G.O.Ms.No.234/VI/72-2,Edn., dated 5.7.1972).

GROUP -B

Vocational

1. Achukatlavandlu.
2. Aryakashatriya, Muchi (Telugu speaking), Chittari, Giniyar, Chitrakara, Nakhas.
3. Devanga.
4. Ediga, Gowda (Gamalla, Kalae), Goundla, Settibalija of Visakhapatnam, East Godavari, West Godavari and Krishna Districts.
5. Dudekula, Laddaf, Pinjari or Noorbash.
6. Gandla, Telikula.
7. Jandra.
8. Kummara or Kulala.
9. Karikalabhakthulu, Kaikolan or Keikala (Sengudam or Sangunther).
10. Karnabhakthulu.
11. Kuruba or Kuruma.
12. Nagavaddilu.
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perika Balija, Puragiri Kashatriya).
16. Nessi or Kurni.
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Phogata Sali).
18. Srisayana (Segidi).
19. Swakulasali.
20. Thogata, Thogati or Thogataveerakshatriya.
21. Viswabrahmin (Ausula or Kamsali, Kumari, Kanchari, Vodia or Vadre or Vadrangi and Silpis).

GROUP- C.

Harija Converts.

1. Scheduled Castes converts themselves to Christianity and their children.

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- 2) Arekatika, Katika
3. Atagara
4. Bhatraju
5. Chippolu(Mera).
6. Cavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Koshti
13. Kachi
14. Kalavanthula, Ganika
15. Krishnabalija(Dasari, Bukka).
16. Kappulavelama
17. Mathura . . .
18. Mali
19. Mudiraj, Mutrasi, Tomugellu
20. Munmurukapu(Telangana)
21. Nagavasam(Nagavamca).
22. Nelli
23. Polinativelamas of Srikakulam and Visakhapatam Districts.
24. Poosala
25. Passi
26. Rangrez or Bhavasara Kashatriya
27. Sadhuchetty
28. Satani(Chatadasrivaishnava).
29. Tammali
30. Turupukapus of Srikakulam and Visakhapatnam Districts
who are subject to social customs of divorce and re-marriages
among their women.
31. Uppara or Sagara
32. Vanjara (Vanjari).
33. Yadava(Golla)

Sd/- Director of Social Welfare

'TRUE COPY'

Annexure II to item No. 8

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Copy of the letter No. S.II(1)-1950-70 dated 4.6.1976 from the Registrar, Andhra University to the Secretary, U.P.C.

SUBJECT: Establishment - Teaching Staff - Appointments to teaching posts - Reservation of posts for backward classes - Regarding -

REFERENCE: Commission's letter No. F.1/46/75 (CP) dt. 26.8.1975.

I am to state that this University is providing reservation for Scheduled Castes and Scheduled Tribes in making appointments to teaching posts at 14% and 4% respectively according to the decision taken by the Syndicate of the University in pursuance of a letter from the Government of Andhra Pradesh. Now the Director, Backward classes welfare, Andhra Pradesh, Hyderabad in his letter No. RC No. 2437/76-AI dated 21.4.1976 requests that the reservation for backward classes also may be made in appointments to teaching posts at 25% in accordance with the G.O. Ms. No. 1793, dated 23.9.1970 of Government of Andhra Pradesh (copy enclosed).

I am, therefore, by the direction of the Syndicate to request for the views of the Commission regarding provision of reservation for backward classes other than the Scheduled Castes and the Scheduled Tribes in appointments to teaching posts.

In this connection, I am to request you to refer to the Commission's letter cited, wherein it has been agreed that reservations may be provided for Scheduled Castes and Scheduled Tribes for recruitment to the posts of Lecturers in the University and Colleges and it is of the view that such reservations may not be operated on a "roster system" nor should the reserved posts be carried forward from year to year.

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to the general category may then be interviewed separately keeping in view the recommendations made by the selection committee in respect of scheduled tribes/scheduled castes candidates.

- 4) In the case of scheduled caste/scheduled tribe candidates interviewed by the committee, if suitable candidates are not available for appointment to the post of lecturers, the selection committee may recommend appointment of suitable candidates as research associates in the scale of Rs. 700-1300 for a period up to three years and these persons could later compete for the post of lecturers as and when vacancies occur. The recommendations made by the selection committee in this regard for appointment as research associates may be sent to the Commission for consideration.

The Commission desired that all universities be advised that the recruitment to the teaching posts as far as possible should be finalised before the beginning of the academic year.

Confidential

UNIVERSITY GRANTS COMMISSION

(69)

Meeting :

Dated : 22nd September, 1976

Item No. 9:- To consider a proposal of Aligarh Muslim University for imparting special instruction to the candidates belonging to Scheduled Caste/Tribes/Backward classes etc. to be admitted to the B.Sc. Engineering courses in the Z.H. College of Engineering and Technology.

On receipt of a communication from the Government of India, Ministry of Education and Social Welfare (Deptt. of Education) in respect of Education of Scheduled Castes and Scheduled Tribes (Annexure-I), the Commission circulated the same to the Universities having Engineering faculties for forwarding their proposals.

In response to this the Aligarh Muslim University has forwarded a proposal from the Dean, Faculty of Engineering and Technology for providing orientation course to Scheduled Caste/Scheduled tribe candidates who are very poorly represented for admission to the Engineering and Technology courses at AMU. The candidates belonging to SC/ST very often fail to score the requisite marks in the competitive test for admission to the engineering courses of AMU for lack of proper understanding and communication. The proposal forwarded by the AMU proposes to provide the orientation course for about three months during May-July every year for offering special instructions to these candidates in English Mathematics, Physics and Chemistry so as to acquaint them with programme of studies and general preparatory background. The course has been proposed to be put under the supervision of Coordinator nominated from amongst the members of the Engineering Faculty. A standing Committee has been proposed to be formed consisting of the Principal, ZH College of Engg. and Technology as Chairman and three members from each discipline e.g. Civil, Electrical and Mechanical with co-opted members of the Faculty of English, Physics, Chemistry and Mathematics. The member-convenor of the Committee is proposed to be the Administrative Officer of the College. The Committee will review the progress of individual students and find out the main drawbacks with a view to eliminating their deficiencies and drawbacks. If necessary, these students may be attached with tutors in the subject concerned. The Course has been proposed to be introduced during summer vacation to enable the University to make the lodging arrangements for the students at the hostels which will be vacated by the regular students. The students may be required to pay about Rs. 50/- p.m. towards the cost of their subsidized meals which may be

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about Rs. 100/- p.m. The subsidy at the rate of Rs. 50/- p.m. per student has been proposed to be provided by the UGC.

The candidates undertaking this course may have to be provided with some books. Generally used books may be loaned out to these students from the Book Bank/Library on semester basis for the duration of the Course. No rent be charged but the students should be held responsible for the loss or damage to any book loaned to them. It should be made clear to the students that they will have to make good the loss. The mechanics of the Course are to be finalised by the Committee set up by the AMU depending on the deficiency of individual SC/ST candidate. After the Course, the students may sit for the entrance examination and some reservation may be kept apart for these candidates, if necessary, by lowering the minimum standards of admission. Special coaching classes have been proposed to be held for the benefit of SC/ST candidates throughout the course of their studies in Engineering and Technology, the extent of coaching depending on the deficiency of an individual student in a particular subject (s) of Engineering. With a view to encourage students to cultivate a habit of proper grasp and expression in the subject the coaching could include provision of quiz.

. . . . The AMU has not indicated the financial commitments involved in the implementation of this scheme except that a subsidy of Rs. 50/- per head per month.

Although there is a provision for reservation of seats for admission to engineering/technology in respect of students belonging to SC/ST but in view of the entrance examination and the minimum qualifications laid down for the purpose, the admission rate from these communities has not been encouraging, the University has informed.

It may be mentioned that the Commission had earlier agreed to provide such facilities at Roorkee and Osmania Universities.

The proposal submitted by the University is given at Annexure-II.

The matter is placed before the Commission for consideration.

JS(II)

C O P Y

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No.F.25-9/74(T.5)
Government of India
Ministry of Education & S.W.
(Deptt. of Education)

New Delhi. 5.4.1975.

To

1. All the State Governments & Union Territories.
2. All Directors of Technical Education.

Subject: Education of Scheduled Castes & Scheduled Tribes.

Sir,

I am directed to say that the All India Council for Technical Education at its 22nd meeting held on 17.5.74 while noting down the progress of admissions of Scheduled Castes & Scheduled Tribes students, recommended that apart from the reservation of seats and provision of scholarships to students belonging to Scheduled Castes and Scheduled Tribes, technical institutions should make determined efforts by organising special coaching and other methods to improve the performance of these categories of students.

In this connection, the Council also noted the successful efforts already being made in the Indian Institutes of Technology, particularly at Madras. These are given below:

1. The Scheduled Castes and Scheduled Tribes students admitted to the first semester of the B.Tech. degree course at Indian Institute of Technology, Madras are first given orientation course of 3 weeks during June-July in English, Mathematics, Physics & Chemistry in order to acquaint them with the programme of Study and general preparatory background before joining the regular first semester course commencing from the middle of July, alongwith the other students.
2. A Standing Committee, with the Director of the Institute as Chairmen, examine the cases of those Scheduled Castes and Scheduled Tribes students who fail in more than 2 subjects in first semester examinations held in December and are not eligible for promotion to second semester under the rules of the Institute. Suitable candidates as recommended by the Standing Committee are given a special programme of instructions in the first semester subjects during the period from January to March to make their deficiencies in these subjects. Special efforts are made to bring the level of these students to that of others. In April, a semester examination in these subjects is conducted for those students. The result is reviewed and the students found unfit are asked to rejoin the first semester in July.
3. A coordinator to coordinate the programmes and an adviser (who belongs to Scheduled Caste) to attend the problems of the Scheduled Castes/ Scheduled Tribes students are nominated from among the faculty. They review the progress of the individual students and report to the standing Committee.

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4. A special second semester course in English, Mathematics, Physics and Chemistry for a period of 8 weeks commencing from 1st May is arranged for the students found eligible to proceed to second semester. These students are also attached to tutors in the concerned subjects working outside the normal hours of instructions. Second semester examinations is conducted for these students in July. The successful students are allowed to proceed to the third semester alongwith the regular students but they are continued to be taken care of. The unsuccessful students are asked to rejoin in first semester in July.
5. The progress made through the above coaching efforts are reviewed by a Special Committee and on its recommendations, the senate decided that in future programmes, the Scheduled Castes/Scheduled Tribes students will be given special attention through, an integrated programme of study, right from the beginning of the first semester. They will have a continuous semester running to 10½ months with a recess of two weeks in December and four weeks of vacations at the end of the 10½ months period.
6. A separate curriculum and syllabus for the 10½ months period, together with a scheme for continuous evaluation during this period culminating in the Final Examination in the prescribed subjects of the First Year have been drawn up.

It is requested that similar efforts may please be made in the technical institutions under your control. Detailed information, if needed, may be obtained direct from the Indian Institute of Technology, Madras. This Ministry may be informed of the action taken in the matter, at an early date.

Yours faithfully,

Sd/-
(I.B.Sangal)
Asstt. Educational Adviser(T).

(75)

Annexure II to Item No.9

Scheme for imparting special instruction to the candidates belonging to Scheduled Caste/Tribes/Backward classes weaker section who may be admitted to the B.Sc. Engineering Courses in the Zakir Husain College of Engineering & Technology of the Aligarh Muslim University-

So far the number of candidates belonging to Scheduled Caste/Tribes/Backward classes in this College has been very poor. This is due to the fact that admission in this college is made on the basis of a competitive test and only successful candidates are given admission in order of merit. Obviously, the candidates belonging to the aforesaid classes having a poor background in all respects cannot be expected to compete the test alongwith candidates who hail from good families and better academic background. As a result, the percentage of candidates belonging to the said classes available for absorption in various engineering services is fairly low. Sometimes it also occurs that no such candidate is available for appointment in engineering services despite the fact that sufficient reservation for their absorption exists in a particular cadre of engineering service. Recently a large number of vacancies of Assistant Engineers in Uttar Pradesh in various disciplines of engineering viz., Civil, Electrical and Mechanical, have been advertised. About 40% of these vacancies have been earmarked for such candidates. It is very doubtful that candidates belonging to the said categories will be forthcoming for appointment against these reserved posts.

In order, therefore, to induce and encourage the candidates from these categories it appears desirable to impart special instructions to these candidates in English, Mathematics, Physics and Chemistry so as to acquaint them with programme of studies and general preparatory background. This programme may be commenced from May to July. The candidates who may take admission in this course may not be charged any fee.

Arrangements for their board and lodging may be made within the University area so that they could devote their maximum time towards their studies. Books, stationery etc., may also be provided to them free of cost. As regards the expenses on their board and lodging the minimum charges be realized from them on subsidized basis. The subsidy be to the extent of 50% of the expenditure on this item. Roughly, the expenditure on board and lodging will be not less than Rs.100/- per student per month. The candidates concerned may be required to pay Rs.50/- per month and the rest of the amount be met from the grant to be made available for this scheme by the Government. As this orientation Programme is intended to be started during the summer vacations, there will be no difficulty in accommodation of these candidates in hostels which may be lying vacant during the vacations.

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A co-ordinator to co-ordinate the programme and an Adviser to attend the problems of the candidates belonging to the said classes may be nominated from amongst the members of the Faculty. They may review the progress of individual student and report upon their performance. A Standing Committee may be formed consisting of Principal as Chairman, and three members from each discipline viz. Civil, Electrical and Mechanical. The teachers of English, Physics, Chemistry and Mathematics may be co-opted as members of this committee. The Administrative Officer of the College may act as Member-Convenor of the Committee. The Committee may review the progress of individual student and find out the main drawbacks of these students with a view to solve their problems. If necessary, these students may also be attached with tutors in the subjects concerned and may be required to work outside the normal hours of instruction.

For appearing in the competitive test, the candidates may not be required to pay any examination fee. Those who have received training under the aforesaid programme may be allowed to appear in the competitive test and their results be judged keeping in view their poor background and other drawbacks. It will be better if, for a couple of years; all the candidates belonging to the said classes who secure the minimum qualifying marks which may be in their cases lower than the qualifying marks of others qualifying the test may be admitted in the Engineering College. After their admission, they may be given orientation programme in English, Mathematics, Physics and Chemistry. They may be adjudged according to their knowledge in a particular subject and a system of grading be introduced so that the students who is weak in a particular subject may be grouped with similar other students and special attention in coaching be paid towards the particular subject.

The first year programme may be so organised that the students are required to take one week of workshop training and for the weaker students, 2 hours per day for instruction purposes even during the workshop weeks be prescribed. During vacations also these students be required to undergo instruction and training in workshop.

Syllabus for these students may be the same as the one prescribed for regular students. The pattern of practical test may also be identical. The major difference may be that good students are permitted to go to the II semester on the basis of their performance in the I semester, the weaker students even though they went through an examination prescribed are not assessed for promotion at the end of the period. They may be allowed to continue and an assessment may be made at the end of the year for promotion to the next class. This procedure seems necessary to give the students of this category sufficient time to get adjusted to the system.

There may be one periodical test per month for each student in each subject. In addition, short quiz type test may be given to the student without any prior intimation with a view to encourage them to cultivate a habit of revising the portion then and there. The performance in the

quiz tests may be considered alongwith the periodical tests. The weightage for internal assessment may be the same as for other students. The semester examination papers may be of the same standard as for other students.

The assessment may be made for half-year just as for the I semester students but this assessment may not be used to decide whether the students should be allowed to go to the next half-year. In the second half also periodical tests and the end-year examinations may be conducted and assessment made for the second half.

Generally used books may be loaned out to these students from the Book Bank/Library on semester basis for the duration of the courses. No rent be charged from them but the students should be held responsible for the loss or damage to any book loaned to them. In such an eventuality, it should be made clear to the students that they will have to make good the loss. It may be pointed out that while the syllabus prescribed for the regular students is covered by these students also, the individual teachers may be provided with extra time to enable them to give these students necessary background which they are lacking and this may be the advantage of this extended package programme for the I year.

This concentrated effort will put a lot of strain on the students as well as the teachers but it will be gratifying when the students will respond in a fairly encouraging manner and will also reap the benefit from this programme.

Sd/
(M.Y.Ansari)
Dean

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Readers = 7 (excluding one Reader's post temporarily converted into Professor's post).

Lecturers = 12

Asstt.
Lecturer = 1

The University has presumed from the above position that the U.G.C. has accepted the need of 4 Professors in the Chemistry as University runs 4 branches of Chemistry: Physical Chemistry, Organic Chemistry, Inorganic Chemistry and Petrochemical and Polymer Chemistry. The University has also stated that when one post of a Professor created temporarily against the Reader's post as indicated in the above statement will be converted into that of a Reader's post after the existing incumbent will retire in February, 1977, there will remain only 3 posts of Professors as against the 4 major branches of Chemistry.

The University has therefore requested that out of the three new posts of Readers one post shown for the theoretical Chemistry may be allowed to be converted into a Professor post in Theoretical Chemistry/Inorganic Chemistry. A letter containing the proposal of the University is given as (Annexure I).

A detail list of existing staff for all 4 branches in the Chemistry department is given as (Annexure II).

The proposal of the University will involve an additional expenditure of Rs. 12,000/- in the V plan.

The matter is placed before the Commission for the consideration.

E.O. (D-4A)/D.S (D4)

Annexure I to G.O. No. 114

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Copy of the letter No.C/VP/114 dated 3rd April, 1976 received from the Registrar, Sardar Patel University.

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Sub: Higher Education & Research-Development Scheme of the Universities for the V plan period (1974-79) - Acceptance of the Schemes by the Commission.

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I am to refer you to your letter No.F.20-5/75(D-4a) dated 17th December, 1975 on the above subject and to state that the position of the existing staff and the new staff recommended for the post-graduate Department of Chemistry, as shown in the Appendix-I of the Visiting Committee's Report has been as under:-

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Staff shown in Appendix-I of the UGC Visiting Committee's Report

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Existing Staff				Recommended (I & II Priorities)			
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P	R	L	Asstt. Lecturer	P	R	L	O
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The correct position in respect of the existing teaching staff excluding Technicians, and others, is as under:

2 Professors

1 Professor (against the Reader's post, temporarily created until the present incumbent continues in the service of the University).

4 Readers (over and above one post of Reader temporarily converted into Professor's post).

10 Lecturers

1 Asstt. Lecturer

2. The final staffing pattern, including the existing staff and the new posts sanctioned by the Commission for the V plan

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would, therefore, be as under:-

Professor	:	4 (including one Professor temporarily appointed against Reader's post)
Readers	:	7 (excluding one Reader's post temporarily converted into Professor's post)
Lecturers	:	12
Asst. Lecturer	:	1
Total :-		<hr/> 24 <hr/>

3. Considering from the University Grants Commission's sanction it is apparent that the Commission has accepted the need for four Professors in Chemistry as the University runs four branches of Chemistry: (1) Physical Chemistry, (2) Organic Chemistry, (3) Inorganic Chemistry and (4) Petro-chemicals and Polymer Chemistry. However, when one post of a Professor, created temporarily against Reader's post as stated in para 2 above, will be converted into that of a Reader's post after the existing incumbent will retire in February, 1977, there will remain only three posts of Professors as against the four major branches of Chemistry.

4. According to the present professorial staff, branch-wise arrangements are as under:-

- (1) Professor in Physical Chemistry : One
- (2) Professor in Organic Chemistry : Two (a) Post held by Prof. S.R. Patel, (b) Post held by Prof. B.N. Mankad.
- (3) Professor in Inorganic Chemistry : No post.
- (4) Professor in Petrochemicals/Polymer Chemistry : One post sanctioned under the Fifth Plan.

5. Under the circumstances, I would request you to consider the following proposal so as to satisfy the need of each branch of Chemistry:-

Out of the three new posts of Readers, one post shown for Theoretical Chemistry, may please be allowed to be converted into a Professor's post in Theoretical Chemistry/Inorganic Chemistry.

6. This is proposed to meet the academic needs of the Chemistry Department as detailed below :-

- (i) The Department imparts instruction for M.Sc. and Ph.D. courses viz. (i) Advanced Quantum Chemistry, (ii) Chemical Bonding, (iii) Molecular Spectroscopy, (iv) Molecular Orbital Theory, (v) Ligand Field Theory, (vi) Complex equilibria and (vii) Reaction mechanisms and kinetics.

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(ii) The Department is also engaged in areas of research such as solution stability of complexes, magnetic and spectral properties; and analytical applicability of metal chelates; kinetics of reactions; dissociation constants and solvent effect.

7. The teaching and research activities of the department could further be enhanced if a person of a professorial cadre is on the staff. A professor in Theoretical Chemistry/Inorganic Chemistry would look after the branch of Inorganic Chemistry.

8. Thus by converting a post of a Reader in Theoretical Chemistry into a post of a Professor, the department will be benefitted in two ways:-

- (i) An opportunity of strengthening the branch of Theoretical Chemistry would be available; and
- (ii) the branch of Inorganic Chemistry would have a Professor.

Since the above proposal involves only a small additional grant, it is requested to consider the proposal favourably.

Sardar Patel University

Details about the Existing Staff in Chemistry Department. The Posts sanctioned under 7th Plan are not included in this statement.

<u>Physical Chemistry</u>	<u>Incumbent</u>	<u>Qualifications</u>	<u>Specialisation</u>
Professor	Vacant	Vice Dr. R.D. Patel appointed as the Vice-Chancellor. This post is now approved by the Commission as a supernumerary post. It is being filled in.	Physical Chemistry & Polymer Chemistry
Reader	Dr. K.C. Patel	M.Sc. (Physical Chemistry) Dr. rer. Nat. Nuclear Chem. (Mainz)	Physical Chemistry and Polymer Chemistry, Thermal Electrical & magnetic properties of Polymers-lipid Chemistry
Reader	Dr. C.K. Patel	M.Sc. (Physical Chemistry) Ph.D. (Polymer Chemistry)	Polymer Chemistry-Solution & Mechanical properties of Polymers and Instrumentation
Lecturer	Dr. H.C. Trivedi	M.Sc. (Physical Chemistry) Ph.D. (Polymer Chemistry)	Polymer Chemistry & Polyelectrolytes
Lecturer	Dr. R.R. Gohil	M.Sc. (Physical Chemistry) Ph.D. (Polymer Chemistry)	Physical Chemistry & Polymer Chemistry Kinetics of Crystallisation and Morphology of Polymer, Thermodynamics
Lecturer	Vacant since 31-12-76. It is being filled in		Solid-State Chemistry/X-ray Crystallography/Theoretical Chemistry
B) <u>Organic Chemistry</u>			
1. Professor	Dr. S.R. Patel	M.Sc. (Organic Chemistry) Ph.D. (Organic Chemistry)	Synthesis, Reaction mechanism Kinetics, Polymer Synthesis
2. * Professor	Dr. B.N. Mankad	Ph.D. (Organic Chemistry)	Organic Synthesis/Lipid Chemistry

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3. Lecturer Dr. V.S. Patel M.Sc. (Organic Chemistry)
Ph.D. (Organic Chemistry) Organic Synthesis (Applied
Organic Chemistry)

*(Instituted Reader's post converted into that of Professor till February, 1977).

4. Lecturer Dr. B.H. Bhide M.Sc. (Organic Chemistry)
Ph.D. (Organic Chemistry) Reaction Mechanism/Natural
Products/Stereochemistry

5. Lecturer Sh. J.S. Parnar M.Sc. (Petrochemical & Polymer
Chemistry) Petrochemicals & Polymer
Chemistry

(C) Inorganic Chemistry

1. Reader Dr. R.P. Patel M.Sc. (Inorganic Chemistry)
Ph.D. (Inorganic Chemistry) Coordination & Theoretical
Chemistry

2. Lecturer Dr. I.N. Patel M.Sc. (Inorganic Chemistry)
Ph.D. (Inorganic Chemistry) Coordination Chemistry

3. Lecturer Dr. J.R. Shah M.Sc. (Inorganic Chemistry)
Ph.D. (Inorganic Chemistry) -do-

4. Lecturer Dr. M.M. Patel M.Sc. (Inorganic Chemistry)
Ph.D. (Inorganic Chemistry) -do-

5. Lecturer Dr. Ratibhai P. Patel M.Sc. (Inorganic Chemistry)
Ph.D. (Inorganic Chemistry) -do-

6. Assistant Lecturer Shri R.N. Patel M.Sc. (Organic Chemistry) Organic Chemistry

(D) Petrochemicals &
Polymer Chemistry

1. Reader Dr. M.R. Patel M.Sc. (Organic Chemistry)
Ph.D. (Organic Chemistry) Petrochemicals/Organic
Synthesis

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UNIVERSITY GRANTS COMMISSION

Meeting :

Dated : 22nd September, 1976.

Item No. 11 : To consider the proposal of the Jabalpur University for the construction of Student's Home.

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During the IV Plan period the Commission provided financial assistance for the construction of Students' Home in universities as below :-

"A Students' Home should normally provide reading facilities for 100 students at a time. Each such home may have a library which should provide 'reading seats' to the students, a stack room for about 5000 books, a cafeteria type dining hall which should accommodate 30 students at a time, a kitchen and a block of bath rooms and W.Cs (separate for men and women). It is estimated that the construction of such a home will cost about Rs. 1,25,000/- The Commission's share towards the construction of building would be limited to Rs. 1 lakh and the balance may be met by the University from their own resources. In addition a suitable grant may also be provided for Library Books".

The Commission had approved a proposal of the Jabalpur University during the 4th Plan period in June, 1971 for the construction of a Students' Home at an estimated cost of Rs.93,205/- outside the IV Plan allocation on the basis of Plans and estimates sent by the University/on this account.

A grant of Rs.25,000/- was also paid to the unit

This approval was in pursuance of the Commission's Resolution of 4th February, 1970, (Item No. 54) under which the Commission had considered a proposal of the Jabalpur University for the establishment of two students' Home at an estimated cost of Rs. 1,25,000/- each, and, and had accepted the proposal of the University for the establishment of one Students' Home at an estimated cost of Rs. 1.25 lakhs, the Commission's assistance being limited to Rs.1 lakh) outside the 4th Plan allocation.

However, as the University could not start the construction work till as late as upto March, 1974 and a ban was later imposed on the construction of buildings, the University was requested to approach the Commission for the construction of students' Home during the V Plan

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period after the Visiting Committee had asessed the needs of the University. The University was also requested to refund the grant of Rs.25,000/- already paid on this account along with interest earned if any.

The University, however, purchased books for a sum of Rs 24,000/- for the proposed Students Home.

The Vice-Chancellor of the Jabalpur University in his D.O. letter dated 21st July, 1976 (copy enclosed) has now inter-alia stated that the construction work of Students' Home building could not be undertaken earlier because of student disturbances. He has also stated that according to the present date of construction work, the estimated cost of the building has risen to Rs. 3,46,000/- and has requested for a grant of Rs. 3 lakhs for the building, as UGC share. The university also desires to name the Students' Home building as "Ravishankar Hall" as it is celebrating the birth Centenary of late Pt. Ravishankar Shukla, the first Chief Minister of Madhya Pradesh.

However, the recommendations of the Vth Plan Visiting Committee to Jabalpur University do not contain the provision for the construction of Students Home. Moreover the Vth Plan pattern of assistance to Universities does not include the provision of the scheme of Students' Home in Universities although in case of some of the universities the Commission has approved the construction of Students Home on the recommendations of the Vth Plan Visiting Committee (for example, Madurai University- basis of assistance IVth Plan ceiling of Rs. one lakh.

In view of the above it is for consideration whether the proposal of the Jabalpur University for the construction of a students Home with the Commission's share of Rs. 3 lakhs as requested by the Vice-Chancellor may be accepted.

EO(D-4a)/DS(D-4)

SLK

Annexure to Item No. 11

A copy of University of Jabalpur letter No.VC:STENO:D.O.76:39-B/Dated July, 21, 1976 Addressed to Professor Satish Chandra, Chairman U.G.C. from the Vice-Chancellor Kanti Chaudhuri, University of Jabalpur.

In March 1970, the University Grants Commission sanctioned to this University for establishment of a Student Home at a cost of Rs. 1 lakh.

The details of plan and estimate were also made available to the UGC who in turn made available an advance grant of Rs. 25,000/- to start the work. They also made available a sum of Rs. 24,000/- for purchase of books. Books were purchased; but the construction could not start because the University was in-turmoil of students disturbance which lasted for sometime.

We now propose to take up this work immediately and complete the construction so that amenities are made available to the student community as soon as possible.

There is however one snag, there has been a price hikeover since 1970 and our University Engineers have calculated the present day cost of the same construction approved by you which now comes to Rs. 3,46,000/-. The original sanction granted by the UGC was for Rs.1,25,000/- but Commission's share was restricted to Rs. 1 lakh only. In the present instance, I suggest that Commission's share be restricted to Rs. 3 lakhs only.

This university is celebrating the Birth Centenary of Late Pandit Ravi Shanker Shukla, the first Chief Minister of Madhya Pradesh. We would like to name this student home as "Ravi Shanker Hall" and lay the foundation stone on 2nd August, 1976.

A revised cost of estimate as worked out and certified by your University Engineer is enclosed. I shall be grateful if formal concurrence of the revised estimate by the Commission is communicated to us at an early date. We propose to lay the foundation stone on the 2nd August, 1976.

I apologise for rushing you, but the circumstances are such that I am compelled to do so and seek your indulgence.

With kind regards,

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated: 22nd September, 1976

AGENDA NOTE

Item No.12: To consider the proposal of Bangalore University for the conversion of a post of Reader in the Department of Political Science into two lecturerships and change in specialisation of one of the three posts of Readers approved in the Department of Education.

The Bangalore University has forwarded the proposal of the Department of Political Science for converting a post of Reader into two Lecturerships and of the Department of Education for changing the field of specialisation of a Reader. In this connection, the following may be mentioned.

Department of Political Science: - The University has requested that the post of Reader in Public Administration requested that the post of Reader in Public Administration may be converted into two Lecturerships in Political Science in order to give opportunities for young, brilliant graduates and also to carry out the teaching work in certain areas of Political Science like Political Theory, Comparative Government, International Relations and Public Administration.

2. According to the University, the Department of Political Science is offering at present, specialisation in Politics (with 4 papers). It now wants to introduce specialisation in Public Administration (with 4 papers) as one of the areas of specialisation in Political Science from 1976-77.

Department of Education:- The University has sought the approval of the Commission for the change in the area of specialisation of one of the 3 Readers from Educational Administration to Curriculum Development.

In this connection, it may be mentioned that the post of Professor in the Department is lying vacant.

A statement giving the details viz. (i) posts recommended by the visiting committee; (ii) specialisation suggested; (iii) posts already available in the department and their specialisations,

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(iv) change suggested by the University and (v) justifications for change required is attached (Annexure-I).

The matter is placed before the Commission for consideration.

A.S.(D-I)/D.S.(D-I)

Post approved by the recommendation of the Vth Plan Visiting Committee	Specialisation suggested by the Visiting Committee	Posts already available in the department and their specialisation	Change suggested by the University	Justification for change as given by the University
1	2	3	4	5
2 Reader in Political Science	One in Public Administration	1P. Public Administration and Comparative Govt. 1R. Comparative Government and Political Theory 2L. 1) Political Theory and International relations ii) International and Public Administration	Conversion of a post of Reader into two Lecturerships.	The University wants to give opportunities for young brilliant graduates and also to carry out the teaching work in certain areas of political Science like Political Theory Comparative Govt. International Relations and Public Administration
3 Readers in Education	Research Methodology educational Sociology Educational administration.	1 Professor (vacant) 1 Reader Educational Administrator 6L. 1. i) Curriculum Development. ii) Guidance and Counselling iii) Comparative Education iv) Social Foundation 2. i) Research Methodology ii) Measurement and Evaluation iii) Educational Statistics iv) Guidance and Counselling 3. i) Philosophy of Education ii) Advanced Educational Psychology iii) Personality Measurement.	Change of specialisation of a Research from Educational administrative to curriculum Development	The University has informed that there is already one post of Reader in Educational Administration. Hence, from the view point of the needs of this Department the additional post to be created should be for curriculum Development.

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 - i) Psychological Foundation
 - ii) Advanced Educational Psychology
 - iii) Research Methodology
 - iv) Social Psychology
 5.
 - i) Social Foundations
 - ii) Advanced Educational Sociology
 - iii) Comparative Education
 6.
 - i) Educational Statistics
 - ii) Psychological Foundation
 - iii) Research Methodology
 - iv) Experimental Education.
- 5 Res. Asstt.
1.
 - i) Educational Psychology
 - ii) Educational Sociology
 - iii) Social Psychology
 - iv) Measurement and Evaluation
 2.
 - i) Advanced Educational Psychology
 - ii) Teacher Education
 - iii) Measurement and Evaluation
 3.
 - i) Comparative Education
 - ii) Child Psychology and Development
 - iii) History of Education
 - iv) Advanced Educational Psychology.
 4.
 - i) Educational Administration
 - ii) Curriculum Development
 - iii) Comparative Education
 5.
 - i) Mental Hygiene
 - ii) Educational Statistics
 - iii) Research Methodology
 - iv) Educational Administration and Supervision
 - v) Psychology of Development

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UNIVERSITY GRANTS COMMISSION

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Meeting:

Dated: September 22, 1976

Time:

Item No.13: To consider the proposals received from Centres of Advanced Study in (i) Applied Chemistry, Bombay University; (ii) Chemistry, Delhi University; (iii) Botany, Madras University and (iv) Astronomy, Osmania University for utilisation of grants during the Fifth Plan period.

The Commission at its meeting held on 7th January, 1976 vide Item No.6 while considering the recommendations of Standing Committee for the programme of Centres of Advanced Studies and departments of special assistance decided that the Centres of Advanced Study who have completed initial 10 years period, and whose work has been rated as excellent or good may be provided an assistance up to Rs.20.00 lakhs within the Fifth Plan period.

It was, subsequently decided that such proposals may be examined in the light of the recommendations made by the Assessment Committee which has reviewed the work of the Centre earlier. It was also decided that the grants required for scholarships, fellowships etc. may be provided in addition to the allocation of Rs.20.00 lakhs approved for the Centres. The proposals submitted by the 4 centres of Advanced Study have since been examined in the light of above decision and placed for consideration of the Commission.

1. Centre of Advanced Study in Applied Chemistry, Bombay University:

The proposal submitted by the Centre is attached as Annexure-I and the report of the Assessment Committee is at Annexure-II.

The recommendations made by the Assessment Committee and the action taken or proposed to be taken in the proposal is given below:-

Recommendations:

Action taken

The Committee would like to recommend that grants may be provided for:

The CAS has proposed additional post at the level of Professor and Research Associates. The CAS has also proposed additional grant for equipment.

- (a) Additional Scientific equipment.
- (b) Books and Journals.

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- (c) Fellowships/Scholarships
- (d) Working expenses.
- (e) Faculty positions.
- (f) Residential accommodation on campus.

The proposed allocation requested by the Centre for the remaining 3 years of the Fifth Plan are as follows:-

Non-Recurring:

Equipment (including basic grant of Rs.2,00,000/-).	Rs. 12,20,000/-
Books and Journals (including basic grant of Rs.1,00,000/-).	Rs. 1,00,000/-
Total:	<u>Rs. 13,20,000/-</u>

Recurring: (In addition to existing ceiling allocations)

1. Academic staff (additional one post of Professor).	Rs. 86,000/-
2. Admn. & Tech. Staff (Additional 3 posts).	Rs. 99,000/-
3. Two research associates.	Rs. 1,05,000/-
4. Travel	Rs. 6,000/- (Rs.2,000/-p.a.)
5. Working expenses.	Rs. 1,08,000/- (Rs.36,000 p.a.)
6. Seminars	Rs. 4,200/- (Rs.1,400/-p.a.)
	<u>Rs. 4,08,200/-</u>

Grand Total: (NR + R) = Rs. 17,28,200/-.

The University has mentioned that they will approach the State Government for taking over the recurring liabilities after the Commission's assistance is over on 1st April, 1981.

2. Centre of Advanced Study in Chemistry, Delhi University:

The proposal submitted by the C.A.S. is at Annexure-III and the report of the Assessment Committee is attached as Annexure-IV.

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The recommendations of the Assessment Committee and the action taken in the proposal is given below:-

Recommendations:

Action taken:

- | | |
|---|---|
| <p>1. The Committee has recommended that with regard to new courses of study, building up of the infrastructure facilities, laboratory accommodation should be included in the Fifth Plan proposal.</p> | <p>The CAS has requested that the additional rooms for glass-blowing, carpentry section, Dark room for photography and small electronic workshop. (In the Fifth Plan development grant no building has been approved).</p> |
| <p>2. The Committee would like to recommend that the assistance may be made available to the centre for purposes of research fellowships, scholarships, books and journals and other items required to strengthen the all-India activities of the Centre.</p> | <p>Additional grants for books and journals have been included. The centre has requested the approval for the posts of 2 professors, 2 readers. It is decided to start M.Phil. course from 1977-78. In addition to this, the Centre has included a post of workshop technician and 2 Sr. Technical Assistants and 3 others.</p> |
| <p>3. The Committee has also recommended that any possible international assistance through the UGC may be provided.</p> | <p>Additional staff asked for will enable the Centre to take part in International activities. This CAS has now been included in the programme of British Assistance to CAS (IBUC).</p> |
| <p>4. The CAS should add one or two electrical engineers so that the work of repairs and maintenance of equipment is entrusted to him.</p> | <p>A post of Electronic Technician has been asked for.</p> |

The proposed allocation by the Centre for remaining 3 years of the Fifth Plan is as under:-

<u>Non-Recurring:</u>	<u>Asked for</u>	<u>Suggested</u>
1. Building	Rs. 1,00,000/-	Rs.1,00,000/-
2. Equipment	Rs.12,84,000/- (including basic grant of Rs.2,00,000/-).	Rs.10,00,000/-

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3. Books and Journals:	Rs. 3,00,000/- (including basic grant of Rs.1,00,000/-)	Rs. 3,00,000/-
	<hr/>	<hr/>
	Rs.16,84,000/-	Rs.14,00,000/-

Recurring:

<u>Items:</u>	<u>Grants required</u>
1. Academic staff (2 Professor & 2 Readers).	Rs.2,30,000/-
2. Admn. & Technical Staff.	Rs.1,25,000/-
3. Books and Journals.	Rs. 45,000/- (Rs.15,000/-p.a.)
4. Visiting Fellows.	Rs. 45,000/- (Rs.15,000/-p.a.)
5. Publication & Travels	Rs. 30,000/- (Rs.10,000/-p.a.)
6. Chemicals & Glassware	Rs.1,50,000/- (Rs. 50,000/-p.a.)
Total:	<u>Rs.6,25,000/-</u>

Grand Total: (NR + R) = Rs.23,09,000/-.

Grand Total: (suggested) = Rs.20,25,000/-.

As suggested by the Assessment Committee, the staff of the Centre has already submitted number of research projects for consideration by the subject panel and 10 research projects have already been approved by the Commission.

3. Centre of Advanced Study in Botany, Madras University:

The Fifth Plan proposal sent by the Centre is attached as Annexure-V and report of the Assessment Committee as Annexure-VI. The recommendations of the Committee and the action taken within the Fifth Plan proposal is indicated below:-

<u>Recommendations:</u>	<u>Action taken</u>
1. The groups in Mycology and Algology need to be considerably strengthened.	The additional posts would strengthen these groups.
2. The Centre over the past years has been able to accumulate considerable data of importance particularly in the areas of studies of Blast disease and	The staff members have submitted research projects to UGC. So far 5 proposals have been accepted.

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wilt and also host parasite relationships. The Centre may put together accumulated data to arrive at some general principals rather than to continue accumulating primary data.

- 3. The interaction between existing smaller groups would be strengthened if the major groups could identify a core programme of activity which could be treated as long range research efforts. The short term problems are investigated by Ph.D. Scholars or Post-doctorate workers. This would help the department in organising the British Assistance programme to CAS in a better way so as to link it with long range research activity.

The Department has 5 research projects in operation with UGC support. The proposal for IBUC link has already been finalised and forwarded to British Council.

- 4. The department should start its own M.Sc. teaching programme. This could replace the existing diploma course.

The department has already discontinued the diploma course and started M.Phil. course, M.Sc. course is also being arranged soon.

- 5. The field station of the department is at present not being used by the staff members. This should be utilised by almost every research worker.

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- 6. Besides, Fifth Plan assistance the Centre should receive assistance under the CAS Programme to augment its library facilities, working expenses of the main laboratories and field station.

The additional allocation of Rs.20.00 lakhs will provide these.

- 7. The Commission should provide some assistance for augmenting the hostel facilities to accommodate the research scholars.

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- 8. The Commission may increase the number of fellowships/scholarships and also provide for additional staff positions. The selections should be on all India basis.

The CAS has proposed additional 2 posts at the level of Professors and two teaching assistants.

9/1

The proposed allocations by the Centre for remaining 3 years of the Fifth Plan is as follows:-

Non-Recurring:

1.	Equipment & Glassware (including basic grant)	Rs. 6,00,000/-
2.	Books and Journals (including basic grant)	Rs. 2,00,000/-
3.	Furniture & fittings for laboratory and library expansion.	Rs. 50,000/-
4.	Growth Room Chamber improvements.	Rs. 25,000/-
5.	Additional funds for purchase of Jeep (approved under a research project).	Rs. 50,000/-
		<hr/>
		Rs. 9,25,000/- . . .
		<hr/>

Recurring:

	<u>Per annum</u>	
1.	Teaching staff (2 Professors & 2 Teaching Assistants).	Rs. 60,000/-
2.	Technical & Administrative staff.	Rs. 78,000/-
3.	Books and Journals.	Rs. 30,000/-
4.	Contingency	Rs. 20,000/-
5.	Visiting Fellows	Rs. 5,000/-
6.	Travel	Rs. 10,000/-
7.	Seminar	Rs. 5,000/-
		<hr/>
		Rs. 2,08,000/-
		<hr/>

Rs. 6,24,000/- for three years.

Total allocation proposed for the Centre is about Rs. 15.50 lakhs for Fifth Plan period.

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4. Centre of Advanced Study in Astronomy, Osmania University, Hyderabad:

The proposal submitted by the Centre is attached as Annexure-VII and report of the Assessment Committee as Annexure-VIII. The recommendations of the Assessment Committee and the action proposed to be taken is indicated below:-

<u>Recommendations:</u>	<u>Action taken</u>
1. The Committee would like to recommend the need of additional academic as well as supporting positions. There is distinct need for some more maintenance staff especially in electronics.	The CAS has proposed additional 6 positions at the level of Astronomers, Associate Astronomers and Assistant Astronomers etc. and 10 positions of supporting staff.
2. The Committee has recommended that the UGC should continue its support to enable this Centre to take up its activities.	Additional grants for books and journals have been provided. Additional staff asked for will enable teachers to take part in International collaboration Programme and also with other observatories in India.
3. Additional grant for books and journals be provided.	
4. The Centre should establish collaborative arrangements with other observatories in India.	

The proposed allocation by the Centre for remaining 3 years of the Fifth Plan is as follows:-

Non-Recurring:

1. Equipment (including basic grant).	Rs. 7,00,000/- (foreign exchange Rs.3,00,000/-)
2. Building & furniture.	Rs. 4,00,000/-.
3. Books and Journals (including basic grant).	Rs. 1,00,000/-.
	Rs.12,00,000/-.

Recurring:

	<u>For three years:</u>
1. Academic staff (6 additional staff)	Rs. 3,96,000/-
2. Scientific Technical Staff. (10 positions).	

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Rs. :-

3.	Visiting Fellows	Rs. 30,000/-.
4.	Seminar & Travel	Rs. 75,000/-.
5.	Publications	Rs. 15,000/-.
6.	Books and Journals	Rs. 60,000/-.
7.	Contingency	Rs. 1,59,000/-.
8.	Computer charges	Rs. 30,000/-.
9.	Other expenditure	Rs. 36,000/-.
		<hr/>
		Rs. 8,01,000/- for 3 years

Total (NR + R) = Rs. 20,00,000/- (about).

In addition to this the Centre has asked for Rs. 10.00 Lakhs for X-ray imaging plant which has been strongly recommended by the Assessment Committee. One of the members, Professor M. K. V. Bappu, Director, Indian Institute of Astrophysics, Kodaikanal has suggested that this facility would be available at their laboratory and they would be able to help the Centre of Advanced Study in Astronomy for this purpose. The Centre has not indicated whether the State Government/University would agree to take over the recurring liabilities after 1st April, 1981 when the assistance from the Commission would cease.

The above proposals from the four centres of advanced study for allocation of grant within the approved ceiling of Rs. 20.00 Lakhs for the Fifth Plan period are placed before the Commission for consideration.

E.O. (SR-I)

Revised Proposals of the CAS in Applied Chemistry, University of Bombay in response to UGC letter No.F.5-1/75(SR-I) of 3rd February 1976

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Item	Existing facilities/Provision available			Additional requirements proposed under CAS scheme for V Plan	Remarks/justification for additional requirements.
	Under maintenance budget (including that taken over from CAS from 1.4.74)	Under V Plan schemes accepted by UCC	Basic grants already approved under V Plan and from CAS grants		
1.	2.	3.	4.		
	A.	B.	C.		
Non-recurring ^a					See Appendix A & Appendix B for list of equipments for the complete amount of Rs.12,20,000/-.
Building (Lab.) ^a	Rs.133771	-	Nil	-	
Equipment ^a	Rs.257833	-	Rs.2,00,000/- (Vide letter F.9-16/75 (SR) of 12.2.75) in two instalments	Rs.10,20,000/-	
Books and Journals ^a	Rs. 99845	-	Rs.1,00,000/- (same as above) in two instalments		
Total: N.R.	<u>Rs.491449</u>			Total of N.R. <u>Rs.10,20,000/-</u>	

Col.2A

a ... Non-recurring: Figures of total expenditure upto 31.2.1974.

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1.	2.	3.	4.
A	B	C	

Recurring =

Staff: (Average annual commitment under revised scale)

1. Teaching (including Res. Asso. and Visiting Fellows)	Rs. 81663	-	-	1 Professor	Rs. 28,700
2. Supporting and Technical	Rs. 66212	-	-	1 Technical Assistant	Rs. 10,600
				1 Senior Stenographer	Rs. 10,000
				1 Assistant Accountants	Rs. 10,000
				Revision of the Instrument Mechanic's grade.	Rs. 2,300

See Appendix-A

Fellowships +
(Maximum annual commitment)

4 Sr. Research Fellowships Rs. 28800
6 Jr. Research Fellowships Rs. 115200 per year (24 working in any year)

2 Research Associates Rs. 35,000

Teacher Fellowships +

(Contingency grant)

Rs. 4000 -

+ Recurring: Fellowships - This is UGC commitment at the present level to be carried over to the Fifth Plan Period.

1.	A	2.	B	C	3.	4.
<u>Travel</u> =	Rs. 1639	-	-	-	Rs. 2,000	
<u>Working Expenses</u> =						
Contingencies, consumables, library and other expenses)	Rs.45431	-	-	-	Rs.36,000	With increase in facilities and number of workers the amount for spare parts, contingencies, chemicals needs to be increased.
<u>Seminar/Symposia</u> =	Rs. 2394	-	-	-	Rs. 1,400	Additional grant is required in view of the rising cost of travel and publication.
<u>Publication</u> =	nil					

Col.2A = Recurring - Figures of actual expenditure for 1975-76 are given which are taken over by State Government as committed expenditure.

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1. 2. 3. 4.

A	B	C
Total - Recurring:		
Commitment for State Government	Rs.197339	
Commitment for UGC	Rs.148000	
Grand Total:	Rs.345339	

Total of basic grant already approved as per letter under reference (non-recurring)

Rs.3,00,000

Annual recurring grant Rs.1,36,000

Total recurring grant for the plan period Rs.1,36,000

x 5 = Rs.6,80,000

Total of the non-recurring grant Rs.10,20,000

Total grant under additional requirements (recurring & non-recurring) Rs.17,00,000

Yearly commitment of UGC under maintenance budget for plan period Rs.148000

Total of the basic grant already approved and the additional grant required Rs.3,00,000+ Rs.17,00,000 = Rs.20,00,000
Adjusted to a ceiling as per UGC letter)

Sahani

Justification for the requirements given in Column 4
of the tabular statement

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Equipment: The complete list of equipment in the original proposal was prepared in consultation with the experts of the Assessment Committee. The experts suggested new lines of work in the field of specialisation of the CAS. Since all the equipment in the proposal cannot be accommodated in the ceiling grant, those that are very necessary for completing the existing lines of work are given priority. It may be pointed out that some of the development proposed by the experts would not be possible unless a further grant over and above the ceiling grant of Rs.20 lakhs is allocated to this Centre. The proposals for the expansion are given in Appendix C to which a favourable consideration is requested.

Staff: . . . With expansion of facilities to widen the scope of work in the fields pertinent to the speciality of the Centre, additional senior staff and research workers are necessary for full utilisation and good progress.

At present there is only one stenographer and no clerk under the CAS. The amount of work is now considerable and there is often delay in some necessary procedures due to lack of clerical assistance and hence the demand for a stenographer and account clerk.

Ever since the Instrument Mechanic got trained in U.K. under UNESCO Fellowship in 1971, he has not received any additional recognition of his added qualification. To ensure that he continues to work in CAS, it is felt necessary that his grade be revised. With his experience, it is felt he fully deserves it.

Research Associates: The actual demand for the number of Research Fellows and Associates in our proposal was made on due consideration of the projects envisaged. Since it has not been possible to accommodate these, only two Research Associates are included. Attention is, however, invited to the note where a case for reconsideration of ceiling Assistance is needed and is attached to this report.

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Appendix B

<u>Equipment</u>	Rs.
1) X-ray diffraction unit with microfocus and Small Angle Scattering and recording attachment.	.. 2,20,000/-
2) Instron Universal Testing Machine Table Model with temperature attachment	.. 1,30,000/-
3) Photo-gonio diffusiometer (light scattering apparatus recording type)	.. 76,000/-
4) Gel-permeation chromatograph	.. 1,40,000/-
5) Rheovibron apparatus to measure dynamic elastic properties.	.. 90,000/-
6) Tunable Dye Laser	.. 1,60,000/-
7) Xenotest weatherometer	.. 80,000/-
8) Sublimation fastness tester	.. 10,000/-
9) Experimental dyeing machine for Lab-Scale pad-dye-cure	.. 68,000/-
10) Pilling tester	.. 18,000/-
11) Stoll abrasion tester	.. 35,000/-
12) Ellipsometer	.. 48,000/-
13) Surface pressure balance	.. 22,000/-
14) X-Y recorder	.. 13,000/-
15) Accessories, Fittings and other items electronic calculator, air-conditioners, etc.	.. 50,000/-
16) Electrostatic testing apparatus and conductivity measurement for fibres and films.	.. 30,000/-
17) Deformation test machine and compressive creep apparatus and accessories.	.. 30,000/-
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Rs.	12,20,000/-
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Appendix C- I

Some remarks about the reallocation and
justification for additional grant requested

The Fifth Plan proposal for the CAS was prepared in consultation with the members of the Assessment Committee. Assessment Committee members proposed some lines of future development of the scope of the work at CAS and the demand for equipment was made on the basis of discussion with them. It is not possible to get the equipment as per our list within Rs.20 lakhs. As such some of our proposed laboratories like 'Polymer Characterization Laboratories' would not be complete. The additional requirement for equipment amounting to Rs.5,45,000/- (list attached) is for such equipment which is absolutely necessary to complete these new plans. Since this involves quite sophisticated equipments, a suitable independent location of such laboratory is necessary and this would need some space and other facilities viz. air conditioning etc.

With the expansion of the fields of activity of the CAS in the different aspects of the research in polymers and dyes (which is the accepted speciality of the CAS), the facilities are being added and as such the experts in terms of staff and the workers in terms of Research Fellows, should also grow in order to utilize fully the expanded facilities and for making a speedy progress. With this background, additional request for one Reader, one Research Associate and two Senior Fellows has been made.

When the proposals as given are accepted, this CAS will have added the following lines of work on polymers and dyes.

- a) Dielectric and electrical properties of polymers and dyes.
- b) Photo-conductivity and semiconductivity of polymers and dyes.
- c) Study of the static and dynamic mechanical properties and effect of treatment.
- d) A systematic and rapid laboratory procedure for characterization of polymers and dyes for import substitution and industrial trouble shooting.

The proposal on which consideration of the UGC is requested is given in details in Appendix-C-II and the list of equipment is given in Appendix C-III.

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We may add that this is perhaps the only centre which is engaged in important applied work of interdisciplinary nature. The progress so far has been rated as 'Excellent' by the visiting Committee experts. The present need of our national development is a more rapid progress in technological and applied research. In view of all this, the further assistance requested deserves sympathetic consideration and we earnestly request the UGC for its acceptance.

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APPENDIX C-II

Request for Assistance in addition to the approved ceiling of Rs.20,00,000/-

Non-Recurring

Space (Lab.)	Rs. 40,000/-	
CAS Hostel	Rs.5,57,075/-	(Attention is invited to original proposal for justification)
Equipment (See Appendix C.III for list)	Rs.5,45,000/-	
Total of Non-Recurring Grant	<u>Rs.11,42,075/-</u>	

Recurring

Staff (Average annual)	
Teaching 1 Reader	Rs. 22,000/-
Fellowship. 2 Sr. Research Fellowships	Rs. 14,400/-
1 Research Associate	Rs. 17,500/-

Total annual recurring expenditure Rs. 53,900/-

Recurring for Plan period Rs.53,900 x 5 = Rs.2,69,500/-

Additional grant requested during V Plan Period over and above the ceiling grant approved by UGC (Recurring and non-recurring)

Rs.2,69,500/- + Rs.11,42,075 = Rs.14,11,575/-

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Appendix C-III

Equipment to be included in additional equipment

	Rs.
1) Morgan complete modulus tester and accessories ..	50,000/-
2) Electronic membrane osmometer ..	45,000/-
3) High light gathering power monochrometer ..	40,000/-
4) Differential Scanning Colorimeter ..	93,000/-
5) Youngs Modulus Apparatus for polymers and fibres ..	15,000/-
6) Flame proofing tester ..	20,000/-
7) pH electrometer for measuring electrode potential and specific ion electrodes	22,000/-
8) Keithley guarded differential voltmeter ..	10,000/-
9) Far Infrared spectrophotometer for range 33 cm^{-1} to 250 cm^{-1} ..	1,80,000/-
10) Spares, installation etc. ..	25,000/-
11) Dielectric Polymer admittance meter ..	25,000/-
12) Colour Thermoconductor with accessories ..	20,000/-
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	Rs.5,45,000/-

Report of the Assessment Committee appointed by the Commission for the Centre of Advanced Study in Applied Chemistry in the Department of Chemical Technology, Bombay University.

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The University Grants Commission, in accordance with the recommendations made by the Standing Committee for Centres of Advanced Study, appointed an Assessment Committee consisting of the following members to evaluate the work of the Centre of Advanced Study in Applied Chemistry (Chemistry of Textile Fibres, Intermediates and Dyes) in the Department of Chemical Technology, Bombay University for the period 1964-74.

- (1) Professor M.Santappa,
Member,
University Grants Commission.
- (2) Dr. B.D. Tilak,
Director,
National Chemical Laboratory,
Poona.
- (3) Dr. D.Shankar Narayan,
Additional Secretary,
University Grants Commission.

The Committee visited the Centre of Advanced Study on 4th December, 1973. The Committee had discussion with the Director and faculty of the Department of Chemical Technology connected with the areas concerned with the Centre of Advanced Study and the university authorities with regard to the programmes and results achieved during the past ten years. The Committee also visited the various laboratories and facilities available for work in the Centre of Advanced Study.

The University Grants Commission recognised the Department of Chemical Technology, Bombay University as a Centre of Advanced Study in 1964 to encourage advanced training and research in the areas of Chemistry of Textile Fibres, Intermediates & Dyes and over the past ten years, has provided substantial assistance to provide for increased facilities of laboratory, scientific equipment, library books and journals and appointment of additional teaching and research staff and to enable it to function as an all-India centre in its chosen areas of specialisation.

The Department of Chemical Technology, Bombay University is a unique institution within the university system and is recognised as one of the premier postgraduate institutions

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in the country for training students in the field of Chemical Technology and Chemical Engineering. The department has specialised sections in seven technologies viz. (1) Textile Chemistry, (2) Food Technology, (3) Technology of Intermediates and Dyes, (4) Technology of plastics, (5) Technology of pigments, Paints & Varnishes, (6) Technology of Oils, Fats and Waxes and (7) Technology of Pharmaceuticals and Fine Chemicals. It has also an extensive section for Chemical Engineering. The Centre of Advanced Study in Applied Chemistry mainly specialises in the areas of Textile Fibres, Fibre-forming Polymers and Dyes. The department has specialised laboratories for Textile Chemistry, Dye-stuff technology, Applied Physics & Chemistry which provide necessary infrastructure for the training and research programmes in the Centre of Advanced Study in Applied Chemistry. The department has 61 staff members consisting of 15 professors, 30 readers and 16 lecturers. It also has the necessary technical supporting staff and administrative staff for proper maintenance and running of the department. The department offers undergraduate courses in Chemical Engineering and Pharmacy and Post-B.Sc. courses leading to B.Sc.(Tech.) degree in the 7 technologies mentioned above. At the postgraduate level, the department offers courses at the M.Sc.(Tech.) level in all the branches and for research leading to Ph.D.(Tech.). A few students are also admitted for research in Pure Sciences, viz. Physics, Chemistry and Mathematics leading to M.Sc. & Ph.D. degrees. The courses taught by the staff in the Centre of advanced study are indicated below:-

- (a) Statistical Thermodynamics (M.Chem.Eng.)
- (b) Material Science (M.Sc.Tech, M.Chem.Engg.)
- (c) Colour Physics B.Sc.(Tech).
- (d) Molecular Spectroscopy (M.Sc. Physics)
- (e) Advanced Textile Chemistry M.Sc.(Tech).
- (f) Chemistry of Textile Fibres and Dyeing B.Sc.(Tech)
- (g) Technology of Finishing B.Sc.(Tech)
- (h) Physics B.Sc.(Tech.)
- (i) Quantum Mechanics M.A./M.Sc.(Maths.)

The research programmes undertaken by the Centre of Advanced Study broadly fall into the areas of (1) Physical Properties of Polymers & Dyes, (2) Chemistry of Fibres, (3) Chemistry of Dyes, (4) Synthetic Dyes & (5) related disciplines. The details regarding the number of staff and research workers engaged in the different projects covering these areas and the number of publications which have ensued on the basis of the investigations carried out in each of these projects are given in Appendix-I. The department has very close relations with the Textile Industry in the Bombay Region and at present over 25 projects are being supported by the Industry. In fact the sponsored research projects provide substantial support for the various research projects

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undertaken by this department and the results obtained and immediately of application value to the textile industry. Also, many members of the staff are consultants to different industrial organisations and serve as member of the Boards of Directors as well.

The assistance provided by the U.G.C. so far is indicated in Appendix -II. Besides the assistance provided by the University Grants Commission, this Centre of Advanced Study also received substantial assistance from International collaboration arrangements through the agencies of the UNESCO and the British Assistance Programme to the Centres of Advanced Study. The details of the total assistance available are given in Appendix-III.

The department has also organised over the last ten years a number of seminars and conferences with the participation of the scientists and technologists employed in industry in an around Bombay and also the R & D departments to the permanent industries dealing with the Polymers & Dyes. The proceedings of this Symposium have also been published. A list of the seminars held and the publications resulting therefrom are indicated in Appendix-IV. The department has extensive collaboration with other universities and research institutions in India and abroad. Mention must be made particularly of the collaborative work with ATIRA, Ahmedabad, BTRA, Bombay, NGL/NCL Poona and Bhabha Atomic Research Centre, Bombay.

The number of Ph.D/D.Sc. degrees awarded has substantially increased over the past ten years. The number of Ph.D. degrees awarded from 1964-65 to 1971-72 and the titles of thesis accepted are given in Appendix-V.

The Committee discussed with the various research groups the programmes undertaken by them and the results achieved from the point of view of original research, applications of research results and the training function, all of which need to be combined for the centre to make an appreciable impact in its area of specialisation. The Committee is aware that applied research is both expensive and competitive and for a department of this type engaged in research directed towards the needs of the economy of the nation in the areas of Textile Chemistry etc., the support available both from industry as well as other sponsoring national organisations should be substantial. The department has made major contribution to the dye-stuff industry and can therefore justify its activities in terms of social returns to the nation. The department has also made full use of the UNESCO and UK Assistance for building up its training and research facilities and to orient its research into modern aspects in its area of specialisation. In the field of Fibre Morphology, while the department has done considerable work, it is to be recognised that for any real synthetic fibre work, the laboratory

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uses the facility available at S/SMIRA. The department has also undertaken several short term problems capable of producing research results of immediate industrial value as well as some long range research programmes and a few joint research projects in collaboration with other laboratories.

On the basis of the discussions which the Committee had an detailed examination of the various technical and other reports furnished by the Centre of Advanced Study, the Committee feels that the Centre of Advanced Study has organised itself well and has made full use of the facilities available to it and has made significant contributions in the fields of Textile Chemistry, Chemistry of Intermediates Dyes etc., and can justifiably claim a leading position for training and research programmes in this area in this country. It has also built up necessary interfaces and liaison with the industry and has a number of sponsored research programmes. The assistance available to it through the agencies of the UNESCO and the UK Assistance have strengthened its laboratory facilities and provided sophisticated equipment as well as . . . training facilities for its faculty members and association of foreign scientists in its work for short or long periods. The department has enjoyed sufficient measure of autonomy to develop its plans of work. The Committee hopes that under the new Act of Bombay University, this department, which in fact is in the nature of a major institute, would get departmental autonomy also. The department has been able to use the various scholarships and fellowships available to it to attract research workers from other universities as well as from industry, thereby fulfilling one of the major objectives of the Centres of Advanced Study Programme to function as an all-India centre for training and research in the subject concerned. In a city like Bombay, attracting students and faculty from other parts of the country is, to a large extent, limited because of lack of students and teachers hostels and provision for residential facilities. As the activities of the Centre of Advanced Study grow in future years, it would be desirable for the Centre to have a residential facility on the campus to be made available to research fellows, guest research workers and faculty coming to Bombay from other universities for working in the Centre of Advanced Study. Such an accommodation would be of value also to foreign visitors.

The Centre of Advanced Study also placed before the Committee its future plans of work and the financial needs in order to carry out these programmes.

The Committee understands that the University Grants Commission has now decided that the existing level of expenditure on recurring items, such as, staff salaries and other

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annual ceiling recurring grants should be taken over by the University with the help of the State Government as committed maintenance expenditure and hopes that such a financial arrangement would release the money necessary for further strengthening the activities of the Centres of Advanced Study initiate new areas of work etc. The Committee also understands that the University Grants Commission, during the Fifth Plan period, would provide substantial support for major research programmes to be undertaken by the departments, groups of research scientists and also individual research workers. Accordingly a considerable part of the support for the Centre of Advanced Study should come by way of such research projects which the Centre of Advanced Study may develop and submit for consideration of the University Grants Commission to provide further support, besides that available from the research projects, for strengthening the facilities of the various laboratories and library books and journals and also some academic staff positions. This assistance under the Centres of Advanced Study Programme would help in providing facilities and men on a permanent basis whereas the support available from specific time-bound, research projects would provide for the 'floating' research workers for the period of the project only. It is also necessary to increase the provision for working expenses to the centres on the basis of the number of research scholars and guest research workers coming to the Centre of Advanced Study annually. This sum should be at least of the value of Rs.2500/- per research workers per annum and may have to be revised periodically keeping in view the increase in the cost of chemicals etc. The Committee notes that the University Grants Commission would continue to provide assistance for various scholarships and fellowships and teacher fellowships presently available to the Centre of Advanced Study. The Committee would recommend increasing the existing number of fellowships and scholarships by 50% during the Fifth Plan period and also for providing the necessary residential quarters recommends that the proposals in this regard which may be formulated by the Centre for (a) additional scientific equipment, (b) library books & journals, (c) scholarships & fellowships, (d) working expenses, (e) faculty positions and (f) residential accommodation should be favourably considered by the U.G.C. The Committee is confident that the UGC would continue to provide major financial assistance in the case of these centres of advanced study, such as the present one, that have done well so that their facilities and work can be strengthened in a major way and enable them to function as all-India centres for training and research in their chosen fields in the university system.

The Committee is grateful to the university authorities and the faculty of the department for the facilities provided for its work.

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Centre of Advanced Study in Applied Chemistry Department
of Chemical Technology, University of Bombay.

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Numbers & Qualifications of Academic Staff:

The Department has 61 staff members consisting of 15 Professors, 30 Readers and the rest lecturers. Names, qualifications and designations of these staff members of the Department are given below:-

Textile Technology:

Professor of Textile Chemistry and Director,
E.H. Daruwalla, B.Sc., M.Sc.(Tech.), Ph.D. (Manch.) F.R.I.C.

Professor of Fibre Science (Centre of Advanced Studies)
W.B. Achwal, B.Sc., B.Sc.(Tech.) (Ph.D.) Bombay, Dr.rer.nat
(Achen).

Reader in Fibre Science,
V.A. Shenai, B.Sc., B.Sc.(Tech.), Ph.D.
Reader in Technology of Dyeing and Printing,
H.T. Lokhande, B.Sc., M.Sc.(Tech.)

Chemical Engineering:

Professor of Chemical Engineering,
M.M.Sharma, B.Chem.Eng., M.Sc.(Tech.) (Bom.), Ph.D. (Cantab).
Singhane Reader in Chemical Engineering,
M.R.Ghivate, B.Sc., M.Sc.(Tech.), Dr.Ing. (Karlsruhe).
Reader in Chemical Engineering,
K.Vasudeva, B.Chem.Eng., M.Sc.(Tech.) (Bom.), M.Sc., Ph.D. (Alta)
Reader in Chemical Engineering,
S.B. Ghandalia, B.Chem.Engg., M.Sc.(Tech.), Ph.D. (Tech) AMII.
Chem.E., AIC.
Reader in Chemical Engineering,
K.K. Tiwari, B.Chem.Eng. (Bom.), Ph.D. Alta)
Reader in Chemical Engineering,
P.K.Ramachandran, B.Chem.Engg., Ph.D. (Tech).
Reader in Chemical Engineering,
A.N. Gandhi, B.Chem.Eng., M.Sc., Ph.D.
Singhane Lecturer in Chemical Engineering,
R.D. Mhaskar, B.Chem.Eng.

Foods and Fermentation.

Professor of Food Technology,
D.V. Rege, B.Sc., B.Sc.(Tech.), Ph.D.

Reader in Biochemical Engineering,
D.V. Thamhane, B.Sc., B.Sc.(Tech.), Ph.D.

contd..

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Reader in Microbiology,
G.A. Sulebele, B.Sc.(Hons)., B.Sc.Tech.), Ph.D. (Tech.).
Reader in Food Chemistry,
P.J. Dubhash, B.Sc., B.Sc. (Techn.), Ph.D.
Lecturer in Food Technology,
Shri V.K. Joshi, B.Sc., M.Sc.(Tech.).
Lecturer in Food Technology,
Shri V.K. Joshi, B.Sc., M.Sc.(Tech.).
Lecturer in Applied Bio-chemistry,
Dr.(Miss) P.R. Kulkarni, B.Sc., M.Sc.(Tech.), Ph.D.

Dyestuffs.

Professor of Dyestuff Technology,
E.V. Sunthakar, B.Sc., B.Sc.(Tech.), Ph.D.
Reader in Colour Chemistry,
S.Seshadri, M.Sc., Ph.D.
Reader in Dyestuff Technology,
(Vacant).
Research Associate (Centre of Advanced Studies),
D.W. Rangnekar, B.Sc., M.Sc.(Tech).

Plastics & Pigments, Paints & Varnishes:

Professor of Polymer Technology,
S.P. Potnis, B.Sc., M.Sc.(Tech.), Ph.D: F.I.C., A.M.I.Chem.E.
Professor of Paint Technology,
(Vacant).
Sir Homi Mehta Reader in the Technology of High Polymers,
G.D. Shetye, B.Sc., M.Sc.(Tech.), Ph.D.
Lecturer in Technology of Paints and Varnishes,
V. Krishnan, B.Sc., M.Sc.(Tech.).
Lecturer in Polymer Technology,
N.A. Bhatt, B.Sc., M.Sc.(Tech.).

Oils, Fats and Waxes.

Professor of Oil Chemistry,
D.Rebelle, B.Sc., B.Sc.(Tech.)Ph.D.(Pittsburgh).
Professor of Oil Technology,
(Vacant).
Sir Homi Mehta Reader in the Technology of Oils, Fats and
Waxes,
V.V.R. Subrahmanyam, B.Sc., M.Sc.(Tech.), Ph.D.

Pharmaceuticals.

Professor of Pharmaceutical Chemistry,
S.K. Pradhan, B.Sc., M.Sc.(London), Ph.D. (London), D.I.C.,
A.R.I.C.

contd.....

Reader in Pharmacology and Physiology,
 M.R. Rajaraman Rao, M.D.
 Reader in Pharmacy,
 Smt. M.R. Baichwal, B.Sc., M.Sc.(Tech.), Ph.D., M.Sc.Phm.
 (Toronto).
 Sir Darabji Tata Reader in Pharmaceutical Chemistry,
 S.R. Boyee, D.Sc. (Zurich).
 Reader in Pharmaceutical Technology,
 V.K. Parameswaran, B.Sc., M.Sc.(Tech.).
 Singhane Lecturer in Pharmacy,
 Smt. N.M. Sanghavi, B.Sc., B.Sc.(Tech.), Ph.D.
 Lecturer in Pharmaceutics,
 S.G. Deshpande, B.Sc., M.Sc.(Tech.).
 R.T. Mody Professor of Chemical Technology,
 (Vacant).

Engineering.

Professor of Engineering,
 M.V. Joshi, B.E.(Hom.) B.Sc.(Tech.) (Mane), A.M.I.E.
 Reader in General Engineering,
 V.P. Navalkar, B.E.(Mech. and Elect).
 Reader in Civil Engineering,
 R.S. Barve, B.E.(Civil), M.E. (Struct)m A.M.I.E.
 Reader in Mechanical Engineering,
 A.S. Dighe, B.E.(Mech.) (Hons), B.E.(Elect.) M.S.(on duty
 leave abroad).
 Workshop Superintendent,
 D.K. Morgaonkar, B.A., L.E.E., L.M.E.
 Lecturer in Mechanical Engineering,
 P.R. Subramanyan, B.E.(Mech. and Elect.).
 Drawing Office Superintendent,
 L.V. Dixit, D.M.E.E.

Ore Dressing and Fuels.

Reader in Metallurgical Engineering,
 S.G. Dixit, M.Sc.(Chem.), M.Tech.(Met.Engg.), Ph.D. (Met.Engg.)
 M.I.I.M.E.
 Singhane Lecturer in Fuel Technology ,
 (Vacant).

Chemistry.

Professor of Physical Chemistry,
 S.R. Sivaraja Iyer, B.Sc.(Hons), M.Sc., Ph.D., F.R.I.C.
 Reader in Physical Chemistry,
 B.N. Ghosh, M.Sc.(Bom), Ph.D. (Leeds), A.R.I.C., F.L.C.(Ind)
 (on deputation).
 Reader in Organic Chemistry,
 K.H. Shah, B.Sc., B.Sc.(Tech.), Ph.D. (Bom and Leeds).

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Reader in Physico-Inorganic Chemistry,
C.E.S. Vaz, M.Sc., Ph.D.
Lecturer in Inorganic and Physical Chemistry,
(Vacant).

Physics.

Professor of Applied Physics (Centre of Advanced Study)
M.R. Padhye, M.Sc., Ph.D. (Banaras).
Reader in Physics,
T.S. Varadarajan, M.Sc., Ph.D.
Reader in Physics (Centre of Advanced Studies),
N.K. Chaudhuri, M.Sc., D.Sc. (Cal.).
Lecturer in Physics,
N.V. Bhat, M.Sc., Ph.D.

Mathematics.

Professor of Applied Mathematics,
B.B. Chakraborty, M.Sc., Ph.D.
Reader in Mathematics,
V.B. Nyayadhish, M.Sc., Ph.D.
Lecturer in Mathematics,
D.D. Haldavnekar, M.Sc., Ph.D.

Micro-Analysis.

Lecturer in Micro-Analysis,
(Vacant).

The Sections of Textile Chemistry and Dyestuff Technology as well as Physics and Physical Chemistry Laboratories provide framework for the field of work of the Advanced Centre. The Staff members of these sections actively participate in the research programme of the Centre. Apart from the Departmental academic staff, the following staff members are working entirely under the scheme of the Centre.

- (1) Professor M.R. Padhye, (Professor of Applied Physics) Field of Specialisation : Optical and other physical properties of fibre-forming polymers, spectroscopy of dyes and other complex molecules, dye-polymer interactions.
- (2) Professor W.B. Achwal, (Prof. of Fibre Science) Chemistry of fibres and textile processing, study of fibre degradation and solvation.
- (3) Dr. N.K. Chaudhuri (Reader in Physics) Molecular interactions and solid state studies, specially of organic molecules, dyes and polymers.
- (4) Shri D.W. Rangnekar (Research Associate) Synthetic Dyes and their evaluation.

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Centre of Advanced Study in Applied Chemistry Department
of Chemical Technology, Bombay University.

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Non-Recurring

<u>Item.</u>	<u>Grant approved during 4th plan period.</u>	<u>Grants released upto date.</u>
1. Equipment.	Rs. 3,20,000	Rs. 3,00,000
2. Books & Journals.	Rs. 70,000	Rs. 70,000
..... Addl. for 1972-73.	Rs. 15,000	Rs. 15,000
..... Addl. for 1973-74.	Rs. 15,000	Rs. 15,000
	<u>Rs. 1,00,000</u>	<u>Rs. 92,500</u>
3. Building.	Rs. 1,50,000	Rs. 1,33,771 (Completed).

Recurring.

1 Academic Staff.

<u>Name of post.</u>	<u>Approved.</u>	<u>Filled up.</u>
Professor ..	2	2
Reader ..	1	1
Research Associate ..	1	1
Senior Fellowships ..	4	4
Junior Fellowships ..	6	6 (1973-74)
Teacher Fellowships ..	4	-

2. Ceiling grant:

<u>Item.</u>	<u>Amount approved</u>
1. Admn.+ Technical staff.	Rs. 22,000
2. Visiting Fellows.	Rs. 15,000
3. Seminars.	Rs. 4,000
4. Publications.	Rs. 2,000
5. Travel	Rs. 2,000
6. Books & Journals.	Rs. 15,000
7. Contingency.	Rs. 30,000
8. Other Expenditure.	Rs. 5,000

contd....

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Recurring and capital expenditure incurred by the Centre for the last eight years ; and UGC grants made available during this period.

Recurring and capital expenditure:

<u>Year.</u>	<u>Recurring (Rs.)</u>	<u>Non-recurring. (Rs.)</u>
1964-65	34,296.59	59,821.43
1965-66	1,02,982.47	2,59,552.05
1966-67	1,06,319.40	91,539.57
1967-68	1,24,022.36	82,933.35
1968-69	1,94,082.05	46,990.37
1969-70	1,98,436.98	60,975.31
1970-71	2,12,554.57	1,08,298.14
1971-72	2,58,419.09	43,492.02
	<u>12,31,113.51</u>	<u>7,53,652.24</u>

Grants Available:

1964-65	40,000.00	70,000.00
1965-66	1,19,783.00	3,70,000.00
1966-67	1,14,502.55	27,370.00
1967-68	76,772.80	8,000.00
1968-69	1,92,374.80	1,10,000.00
1969-70	2,20,205.40	1,64,000.00
1970-71	2,05,244.45	Nil
1971-72	2,48,486.24	77,328.12
	<u>12,17,374.32</u>	<u>8,26,698.12</u>

Centre of Advanced Study in Applied Chemistry Department
of Chemical Technology, Bombay University.

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Utilisation of Foreign Assistance:

The CAS has been receiving assistance from Unesco since 1965. For the last two years this CAS is included under U.K. Assistance programme. The foreign assistance hence will be given in two parts.

Part.I.

.. Under U.K. Assistance Programme, the Centre is to receive two experts each year and is to receive fellowship for two persons working in the Centre to visit U.K. each year. So far the following experts visited the Centre:-

Professor I.D. Rathee (Leeds) 1971.
Professor R. Meredith (Glasgow) 1972.

From the Centre, Prof. M.R.Padhye visited U.K. in 1972.

The Overseas Development Organisation has allotted a sum of £ 12,500/- for equipment aid to the CAS. The lists of equipment have been submitted in November 1971 but no equipment has been received so far. Books worth about £ 1000/- have been received as part of the U.K. aid programme.

Part-II.

The Unesco assistance is mainly received in terms of (a) expert services (b) equipment and (c) fellowships for the workers at CAS.

(a) Expert services: Since the starting of the Centre, only two experts were made available in the last seven years:-

- i) Prof. V.F.Androcov - 2 months during 1966.
- ii) Prof. G.E. Krishevsky - 6 months during 1968-69.

Every year a number of names of experts with their job description as per proforma have been submitted. It is apparent that the position of this Centre as far as Unesco expert assistance is concerned is not very satisfactory.

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(b) Equipment: the following table gives position of Unesco Equipment

1965-66 (Biennium)

Purchase Order TA/IND/66-404R

Spectograph DFC-8	Cancelled
Infrared Spectrophotometer	Cancelled
Recording Spectrophotometer	Cancelled.
Electron Microscope EM &	Received (USSR)
<u>Purchase Order TA/IND/66-411 R</u>	

Spectograph DFC-13	Received (USSR)
Microscope MIN-4	Received (USSR)
Refrigerated Centrifuge	Received (USSR)
Prospecting Oscillograph	Received (USSR)
Recording Microphotometer	Received (USSR)

1967-68 (Biennium)

Allocated grant. (₹ 20,000 in addition to ₹ 2500 from savings) . . .

X-ray diffractometer	Not received
Spare parts for existing equipment for ₹ 2500	Received

1969 (Grant allocated - Roubles 10,000/-)

Purchase Order TA/IND/70-455R

Interferometer	Received (USSR)
Potentiometer	Received (USSR)
Electronic Reading Device DSL-01	Not received
Spare parts for Electron Microscope	Received. (USSR)

1970 (Grant allocated - Roubles 17,000)

Electron Spin Resonance Spectrometer & Accessories.	Not received
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1971-72 (Biennium) Grant allocated ₹ 50,000.

List submitted.

It is seen that all the major equipments received so far is from USSR. The equipment which can form a basis for starting a new line of work is the Electron Microscope. No major grant from convertible currency was received by the CAS so far.

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(c) Fellowships:

The programme of visits of workers from this CAS abroad is progressing satisfactorily. So far 8 persons have already received fellowships and two names each for short term and long term fellowships have been proposed for biennium 1971-72. These visits have been extremely useful.

1. Mr. H.T. Lokhande, October 1966 to April 1968
(Unesco Junior Fellowship award)
2. Prof. W.B. Achwal, October 1966 to September 1967. . .
(Unesco Junior Fellowship award)
3. Prof. E.H. Daruwalla was invited by the Ministry of Education, USSR to delivery 7 lectures over a period of three weeks- June 1968.
4. Prof. S.R. Sivaraja Iyer, November 1968 to January 1969
(Unesco Fellowship award).
5. Prof. M.R. Padhye, April-June 1969
(Unesco Fellowship award)
6. Prof. S.V. Sinthankar, June-August 1970
(Unesco Fellowship award)
7. Dr. A.V. Patwardhan, September-November 1970
(Unesco Fellowship award)
8. Dr. N.V. Bhat from February 1971 for one year
(Unesco Fellowship award)
9. Prof. M.R. Padhye, March-April 1972
(British Assistance)
10. Sri V.V. Maval, March-May 1972
(Training Fellowship)
11. Dr. S. Seshadri, January-March 1973
(Unesco Fellowship award)

e) Impact made by the Unesco assistance:

The CAS has gained a lot by the visits of the junior and senior fellows abroad. Most of these visits have resulted in starting new lines of work at the CAS. Much more advantage would have been gained if it was followed

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equally intensively by visits of experts to the CAS. Unfortunately the activity in this direction has been inadequate. The progress made by CAS is therefore mainly due to its staff and experience gained by them during their deputation abroad.

The impact of assistance can be evaluated in terms of two aspects: firstly the perfection and advancement of the existing techniques and standard of work, in the field of specialization. The first objective is satisfied to a measurable extent but the second objective is at present in the initial stages of development. The plans for further development of this CAS in this field of specialisation are indicated in the last item. These are going to make a very significant impact specially because this CAS has a special significance in so far as it is located in the part of the country where most of the synthetic fibre, polymer and dyestuff industries exist.

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Centre of Advanced Study in Applied Chemistry-
Department of Chemical Technology, Bombay University

1. Seminars and Symposia Organised by the Centre

The Centre has so far been arranging one symposium per year over the last seven years. The subjects of the symposia held so far are as under:

- 1) Swelling and solubilization of cellulose
- 2) Chemistry of dyes
- 3) Some contributions to the chemistry of synthetic dyes and mechanism of dyeing
- 4) Physico-chemical aspects of the interaction of dyes in solution and in fibre system
- 5) Chemistry of synthetic dyes.
- 6) Dye-polymer interaction
- 7) Chemistry, Structure and properties of polymers.

2. Proceedings of Symposia published

- 1) Physico-chemical aspects of the interaction of dyes in solution and fibre systems
- 2) Chemistry of synthetic dyes
- 3) Dye-polymer interactions
- 4) Chemistry, structure and properties of polymers.
- 5) Studies in mass transfer(extraction with reaction)
- 6) Mass transfer in agitated contactors
- 7) Preparation and study of twitchell type of catalysts

1968-69:

- 1) Studies in process design oxidation of lower alkenes
- 2) Mechanism of stress analysis in elastic structure
- 3) Studies on sulfated monoglycerides
- 4) Kinetics of oxidation in heterogeneous systems
- 5) Bleaching with sodium chlorite
- 6) Studies in chlorination of minerals

1969-70:

- 1) Studies in chlorination of minerals
- 2) Studies in polymerisation of vinyl acetate
- 3) Studies in reactions of CA-fraction
- 4) Studies in Biochemistry of germination
- 5) Synthesis of phenolic compounds as chemotherapeutic agents
- 6) Studies in mass transfer
- 7) Liquid-liquid extraction in packed and spray columns

1970-71:

- 1) Synthesis of medium chain saturated diacid triglycerides and a study of their properties

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- 2) Amino acid metabolism in micro-organisms
- 3) The synthesis of dyes for synthetic fibres and reactive dyes for natural fibres
- 4) Kinetics of oxidation of organic compounds
- 5) Catalytic dehydration of castor oil and its methyl esters
- 6) Thermodynamics of extractive crystallisation
- 7) Studies in solvent extraction
- 8) Studies in minor oils
- 9) Mass and/or heat transfer in columns
- 10) Mass transfer in agitated contactors

1971-72:

- 1) Use of indigenous materials in manufacture of tablets
- 2) Heterocyclic studies: Studies in the application of the Vilsmeier-Haack reaction to benzothiazinone and benzoxiquinone
- 3) Studies in mass transfer
- 4) Studies in mass transfer
- 5) Studies in mass transfer with chemical reactions
- 6) 6-Hydroxy benzoates as food preservative
- 7) Surface-active agents based on diol esters.

Titles of theses: (Ph. D) (Science)

1964-65: Nil

1965-66:

- 1) Synthesis of sulphur heterocyclic compounds and synthesis of tetralones
- 2) Synthesis of some basic steroids
- 3) Studies in synthetic dyes 1-Thianaphthalenium perchlorate and thiacyanine dyes

1966-67:

- 1) Synthesis of branched chain fatty acids
- 2) Synthesis of thiophenes, study of natural products and potential anti-bacterial and anti cancer agents
- 3) Some dynamical problems in the theory of elasticity
- 4) Chloromethylation of nitrogen-containing compounds

1967-68:

- 1) Studies in some aspects of the behaviour of aluminium and copper both in alkaline and acidic media and under controlled and atmospheric conditions
- 2) The oxidation of iodine ion by peroxydisulfate ion
- 3) Kinetics of hydrolysis of nitriles
- 4) Studies on corrosion protection offered by processed manganese to steel in sea water
- 5) Benzanthrone derivatives

1968-69:

- 1) Kinetic study of corrosion of cadmium in acidic media under controlled conditions
- 2) Physico-chemical studies of synthetic drugs
- 3) Kinetics of reactions of amines with alkene oxides and alkyl halides
- 4) Studies in metal chloride with reference to the chlorides of aluminium
- 5) Studies in microbial metabolism
- 6) Studies on genetic transformation in microorganisms
- 7) Attempts towards the synthesis of Ibogaine; and application of the Vilsmeier-Haack reaction to lactams

1969-70

- 1) Studies in the oxidation of 2-propanol
- 2) Synthesis of triglycerides and a study of their properties
- 3) Synthesis of compounds having potential biological activity
- 4) Kinetics of alkaline hydrolysis of esters
- 5) Studies in effect of γ -radiation on the physical properties of synthetic fibres
- 6) Studies in Vitamin B₁₂ metabolism
- 7) Spectra of complex molecules
- 8) Metabolic activities of actinomycetes
- 9) Synthesis of triacid and diacid triglycerides and a study of their properties.

1970-71:

- 1) Synthesis of triacid and diacid triglycerides and a study of their properties
- 2) Synthesis of polycyclic compounds
- 3) Fermentative production of amino-acids and anti-biotics
- 4) Synthesis of benzophenonium ions and derivatives
- 5) Synthesis of newer heterocyclic cationic systems
- 6) Some dynamical problems in the theory of magneto hydrodynamics
- 7) Studies in yeasts

1971-72:

- 1) Halogenation of dyes and intermediates
- 2) Studies in polycyclic quinones
- 3) Synthesis of steroids
- 4) Storage studies on oil cakes
- 5) Precipitation studies on arsanates
- 6) Synthesis of triglycerides containing saturated and unsaturated acids and study of their properties
- 7) Heterocyclic studies
- 8) Studies on adsorption at inter-faces
- 9) Studies on the physical chemistry of solute-macro-molecule interactions.

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- 10) Studies in coupling reactions
- 11) Studies on oxycellulose
- 12) Studies on heterocyclics
- 13) Electronic and vibrational spectra of polyatomic molecules.

Centre of Advanced Study in Applied Chemistry-
Department of Chemical Technology, Bombay University.

Student enrolment figures: class-wise, Ph.D./D.Sc.
degrees awarded with titles of theses

Year	Enrolled		Awarded	
	Ph.D. (Tech.)	Ph.D. (Science)	Ph.D. (Tech.)	Ph.D. (Science)
1964-65	18	21	2	-
1965-66	21	23	3	3
1966-67	17	31	5	4
1967-68	30	36	7	5
1968-69	43	38	6	7
1969-70	35	44	7	9
1970-71	41	55	10	7
1971-72	42	39	7	13

Titles of theses: Ph.D. (Tech.)

1964-65:

- 1) Refining of oils and fats
- 2) Studies in nucleotide metabolism in microorganisms

1965-66:

- 1) Preparation of synthetic glycerides and a study of their properties
- 2) Studies in oxidative metabolism of microorganisms
- 3) Studies in heterocyclic compounds

1966-67:

- 1) Metabolic studies with *Neurospora crassa*
- 2) Studies in vitamin B12 metabolism
- 3) Adaptive biosynthesis of chlorophyll in *Euglena Gracilis*
- 4) Studies in photochemical degradation of chemically modified cocoons
- 5) Studies in vegetable drugs.

1967-68:

- 1) Microbial folates and their metabolic significance
- 2) Studies in fat-splitting
- 3) Studies on seed proteins
- 4) Studies on the synthesis of saturated acids triglycerides.

UNIVERSITY OF DELHI
(Department of Chemistry)

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Justifications for additional requirements

1. Buildings:

At present we have practically no workshop facilities in the Department. A dark room for photography is also badly needed. The glass blower has to be provided with more space in order to help in the research activities in the Department. For these purposes we would require the following additional rooms: -

- a) Room for glass blowing
- b) Carpentry Section
- c) Dark room for photography
- d) Small electronic workshop where electrical equipment, refrigerators, air coolers etc. are to be repaired departmentally.

For the above the total floor area of 2,000 sq.ft. would be required. The approximate cost at the current rate including furnishing will be approximately Rs. 1 lakh.

2. Equipments:

After transfer of B.Sc. Honours from the Department to the colleges, the accent has been shifted towards Post-graduate teaching and research activities. There are number of small and major equipments which are immediately needed to help the researcher of the department and the neighbouring states. Consequently the bulk amount viz. Rs. 10.84 lakhs have been marked for equipment.

3. Books and journals:

The Advanced Centre for Visiting Committee has recommended that the Departmental Library should be strengthened particularly the book section. It has been decided to enhance the existing provisions under Books and Journals by Rs. 2 lakhs out of Rs. 20 lakhs allocation.

4. Teaching Staff:

The Department has decided to start M. Phil. course from 1977-78. In order to achieve higher standard the posts of 2 Professors and 2 Readers are absolutely essential.

UNIVERSITY OF DELHI
(Department of Chemistry)

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p.t.o.

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These posts may therefore be created early so that the M.Phil. course could be started in time.

5. Supporting Technical Staff:

1. Workshop Technician (Electronic): In the Department the absence of Electronic Workshop was felt very much. Professor H.C. Gaur started this lab. in a small room by fabricating some of the instruments. Since the number of electronic instruments is large, it has been desired by the Standing Committee of the Professors that Electronic Workshop should be expanded and should be utilised in repairing small electronic instruments instead of getting them repaired through outside agencies. It was explained that with the development of Electronic Workshop not only the department will save money but also save precious time in getting the instruments repaired. It is in this context that the department places the top priority for having a post of Workshop Technician (Electronic) in the scale of Rs. 550-900.

2. Senior Technical Assistant (Laboratories)
(Scale Rs. 550-900):

The Department has 50 research rooms and laboratories, 7 general laboratories and 8 class laboratories. There are always complaints of minor natures such as electricity failures, water/gas leakage. To keep these laboratories in the running condition requires considerable efforts as various wings of the Engineer's office have to be approached and persisted in getting the faults rectified. Besides the proposed Senior Technical Assistant will be expected to see that other laboratory equipments such as ovens, pumps, burners, balances and the like are kept in the working order. It is, therefore, absolutely essential to have a post of Senior Technical Assistant (Laboratories) in the Department at the earliest so that the time of the research students is saved.

3. Senior Technical Assistant (Photographer-cum-Artist)
(Scale: Rs. 550-900):

As already mentioned at serial No. 1, the department proposes to have a small dark room for photography work in the department. It is noted that there is no arrangement for making charts and slides etc. for display to the students. This work at present is being done by the private agencies which are not only time-consuming but very very expensive.

4. Electrician:

The department has no electrician of its own with the result that large number of man hours are lost even for small repairs. Besides the Engineer's office does not undertake to repair table fans, heating elements, heating rods and such similar equipments. We also propose to have air conditioners
p.t.o.

and refrigerators also repaired through him. The proposed electrician in the scale of Rs. 330-430 is absolutely essential.

5. Maths:

In order to assist electronic-lab. and the electrician, it is proposed to provide the workshop with 2 mats in the scale of Rs. 210-4-250-EB-5-270.

The total allocation for all these Supporting Technical Staff works out to Rs. 1.1 lakh when calculated for the remaining period of 2 years and 3 months.

6. Chemicals:

The requirements for the chemicals for the class students have been taken care off under the Maintenance Grant of the University. It is felt that for research of the faculty members/scholars, the funds are inadequate for basic chemicals to pursue their research. There is, therefore, a strong case of providing at least Rs. 0.50 lakhs for chemicals per year. The total requirement for the remaining period of Fifth Plan will be Rs. 1/50 lakhs.

7. Miscellaneous:

There is a provision of Rs. 30,000/- under miscellaneous head of the Centre of Advanced Studies which has been merged in the Maintenance Grant. Since miscellaneous account bears a major share for running the Advanced Centre effectively and efficiently, it is suggested that the provision of Rs. 30,000/- p.a. should be enhanced to Rs. 45,000/- per year. The total additional provision under this head will be Rs. 45,000/- for the remaining 3 years of the Fifth Plan period.

8. Maintenance of Sophisticated Equipment:

A token budgetary provision of Rs. 5,200/- has been provided under the Maintenance Grant for this item. The amount provided is so meagre that even the equipment of daily use cannot be maintained from this provision. It is, therefore, strongly recommended that a sum of Rs. 15,000/- per year may be allocated for maintenance of sophisticated equipment in the Department. The total allocation under this head for the remaining period of Fifth Plan will be Rs. 0.45 lakhs.

9. Publications and Travels:

Presently, there is a provision of Rs. 10,000/- p.a. for publications and travels. It is found that this amount is inadequate as large no. of research papers are to be sent for printing in Scientific Journals of repute in India and abroad. The expenditure on these will leave hardly any amount for

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travel for our faculty members and research students who want to go out to avail of research facilities which are not available in the Department or to attend Scientific Conferences and symposia. It is, therefore, suggested that a sum of Rs. 10,000/- per year may be allocated for the purpose. For the remaining period of Vth Plan a provision of Rs. 0.30 lakhs have been made accordingly.

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Proposals (Revised) of the Centre of Advanced Study in Chemistry, University of Delhi (in response to UGC letter No. F.5/1(75-SR-1) dated February 3, 1976

Items	Existing facilities/provisions available at present				Additional requirements proposed under CAS Scheme V Plan (out of Rs. 20 lakhs sanctioned)	Remarks
	Department	CAS Takenover	Total	Under 5th Plan schemes already accepted by UGC		

(in lakhs)

B. Recurring:

a) Staff (Expenses calculated for a period of 2 years and 3 months only)

1. Teaching

i) Professors	1 Pri: 1 Prof. (Phy. Chemistry) 1 Reader (Inorg. Chem.)	2	1.248
ii) Reader	II Pri. 1 Prof. (Inorganic)	2	1.044

2. Supporting Technical Staff

i) Workshop Technician (electronic)	Grade:	Rs. 550-900	1.	0.238
ii) Senior Technical Assistant (Laboratories)		Rs. 550-900	1.	0.238
iii) Senior Technical Assistant (Photographer-cum-Artist)		Rs. 550-900	1.	0.238
iv) Senior Electrician		Rs. 330-430	1.	0.170
v) Mats		Rs. 210-270	2.	0.234

3. 3.560

Proposals (Revised) of the Centre of Advanced Study in Chemistry
 University of Delhi (in response to UGC letter No. F. 5/1(75-SR-I)
 dated February 3, 1976.

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Items	Existing facilities/provisions available at present			Additional requirements proposed under CAS Scheme Vth Plan (out of Rs. 20 lakhs sanctioned)	Remarks
	Department	CAS Takeover	Total Under 5th plan schemes accepted by UGC		
	(in lakhs per year)	(in lakhs per year)		(in lakhs per year)	
<u>Recurring:</u>					
<u>Other Charges</u>					
1. Misc. contingencies	0.088	0.10		-	
2. Stationery	0.044	-		-	
3. Entertainment Expenses	0.01	-		-	
4. Furniture & Equipment	0.066	-		-	
5. Chemicals & Glasware	1.339	-		0.50	(1.50 for remaining 3 years of Vth Plan)
6. Apparatus	0.709	-		-	
7. Postage and Telegrams	0.022	-		-	
8. Maint. of Labs.	0.116	-		-	
9. Reprints and Blocks	0.012	-		-	

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10.	Fuel for Water Distilln.	0.017	-	-
11.	Maintenance of Gas Plant	0.331	-	-
12.	Maintenance of Gas Fittings	0.027	-	-
13.	Maintenance of Science equipment	0.052	-	0.15 (0.45 for remaining 3 of Vth Plan)
14.	Books and Journals	-	0.15	(Under Non-recurring grant)
15.	Miscellaneous	-	0.30	0.15 (0.45 for remaining of Vth Plan)
16.	Visiting Fellows	-	0.15	-
17.	Publications and Travels	-	0.10	0.10 (0.30 for remaining of Vth Plan)
18.	Seminars	-	0.10	-

0.90 (2.70 for remaining of Vth Plan)

Total Non-Recurring = Rs. 13.84 lakhs

Total Recurring = Rs. 6.26 lakhs

Grand Total
(Vth Plan period) Rs. 20.10 lakhs

Annexure IV to Item No.13

Report of the Assessment Committee appointed by the University Grants Commission for the Centre of Advanced Study in Chemistry, Delhi University.

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An Assessment Committee consisting of the following members appointed by the University Grants Commission to evaluate the work of the Centre of Advanced Study in Chemistry, Delhi University in accordance with the terms of reference (copy enclosed), visited the department on 22nd December, 1973 :-

1. Professor M Santappa
Member
University Grants Commission . .
2. Dr Nitya Nand
Central Drug Research Institute
Lucknow
3. Dr D Shankar Narayan
Additional Secretary
University Grants Commission
4. Dr S K Das Gupta
Deputy Secretary
University Grants Commission

The Committee visited the different laboratories and other facilities of the department and held discussion with the university authorities, Head of the Department and other senior faculty members and had detailed discussions with the major groups of research workers in the areas of Chemistry of Natural Products including Organic Chemistry, Inorganic Chemistry and Physical Chemistry. The Committee had brief meetings also with the research scholars of the department and the supporting technical staff.

The Department of Chemistry, Delhi University was recognised in 1963 by the University Grants Commission as a Centre of Advanced Study in Chemistry with special emphasis in the area of Chemistry of Natural Products, on the basis of the achievements of this department in teaching and research in the area of Chemistry of Natural Products, the merit, strength and viability of the school and also the potential that existed for achieving excellence and to function as an all-India centre for training and research in the area of Chemistry of Natural Products. Consequent upon the recognition of this department as a Centre of Advanced Study, the University Grants Commission provided substantial support for increasing laboratory accommodation, obtaining sophisticated scientific equipment,

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library books & journals and appointment of academic, research and other supporting technical and administrative staff. The details of the grants made available during the period 1963-74 by the University Grants Commission are given in Appendix II. Besides the grants made available by the University Grants Commission, the department also received substantial support from the Ford Foundation and the Unesco as well as considerable inputs for scientific equipment under the 12 million dollar loan for educational development obtained by the U.G.C. for use by Indian universities. The total capital inputs over the last ten years exceed Rs.55 to 60 lakhs. The departmental budget at present including the Centre of Advanced Study grants is of the order of Rs.16 lakhs p.a. Brief details regarding the assistance available to this department from various sources are given in Appendix III.

The Department of Chemistry, Delhi University is perhaps one of the largest university departments and has at present a staff of 6 professors, 21 readers and 21 lecturers and over a 100 technical supporting staff and administrative personnel. Professor T.R. Seshadri, F.R.S., under whose guidance and leadership the department attained International reputation and during whose time as head of the department, the UGC upgraded this department to the status of a centre of advanced study, at present, is working presently as Emeritus Professor. The department has over 350 students in the two years of the M.Sc. class and over 100 research scholars. The department has only some responsibility for B.Sc. honours teaching consequent upon the transfer of the honours teaching since last year to the colleges of Delhi University.

Several important contributions in the field of Natural Products Chemistry have been made by this department over the past 25 years and these have resulted in the form of research publications, Ph.D. awards. The department is well equipped for research in the areas of (a) Chemistry of Natural Products, (b) Organic Chemistry, (c) Physical Chemistry, (d) Inorganic Chemistry and (e) Theoretical Chemistry. The important areas in which research is carried out in each of these major groups are given in Appendix IV.

The department is well equipped with necessary laboratory facilities, sophisticated equipment and library services. Besides the sophisticated equipment listed below the department has access to other facilities like Electron Microscope, Aminco-Bowman spectrofluorometer, low temperature research facilities etc., available in the sister departments :

NMR spectrometer (Varian A-60)

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- Mass spectrometer (USSR, MX 1305)
- IR, UV and visible spectrometers (Perkin-Elmer, USSR)
- Analytical ultracentrifuge (Beckmann)
- Co-60 Gamma source (USA)
- Gas Chromatographs (Perkin Elmer, AEC, USSR)
- Polarographs (Manual and Recording)
- Micro-analytical apparatus (Gallenkamp USSR)
- Spectropolarimeter (Billingham and Stanley).
- Ozoniser (British)
- Polarimeter (Hilger)
- Precision micro and semi-micro balances (USSR, Mettler)
- Refrigerated Centrifuges (USSR)

Members of the staff are also actively engaged in research areas of interdisciplinary nature in collaboration with colleagues in Departments of Physics, Botany, Zoology, V.P. Chest Institute, All India Institute of Medical Sciences, Indian Agriculture Research Institute etc. The Computer Centre of the Delhi University has IBM 1620 and 360 machines which are regularly made use of by the staff and students of the Department.

The total number of research scholars working at present is 104, of which 61 are in the Organic Chemistry Group including Natural Products Chemistry, 25 are in Physical Chemistry and the remaining 18 are in inorganic Chemistry. Seventy three students doing Ph.D. work are students of the Delhi University having obtained their Honours and/or Master's degree from this department. Thirty one other are from other universities and have come to this department for their Ph.D. work.

Besides its extensive teaching and research programme, the department has organised a number of seminars, both national and international, summer institutes, Unesco training programme, short-term courses etc., for the benefit of the students and teachers from different universities in the country and also several other countries of the South East Asia Region. A

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Chemistry Research Colloquium in the department organises frequent discussions by staff and students where current research problems and progress made are discussed. Professional organisations, such as the branches of the Royal Institute of Chemistry, the Chemical Society, London and the Indian Chemical Society held meetings in the department to enable guest speakers to give lectures and for research scholars to present their research results. The department also has been able to associate with its work several distinguished scientists from foreign countries under the Unesco Programme and also to send out some of its faculty members to other countries to obtain advanced training in the areas of their research interest. The average number of Ph.D. degree awarded in the department is about 10 to 12 every year and the number of research papers published by the faculty and students annually is about 80 to 100 papers.

Most of the research activity of the organic chemistry group is in the area of natural product chemistry, mainly confined to oxygen heterocyclics with some work in triterpenes, glycosides and depsides. The work carried out is extensive and is of a very good quality due to which this school is recognised internationally as an important centre of research in this field. The main interest of this school has been on isolation and structural elucidation of chemical constituents of plants with very limited interest in other areas of natural product chemistry. Presently the real challenge of natural product chemistry lies in the borderline, where organic chemistry interacts with different disciplines. Some of the faculty members should reorient their total interest in these areas such as insect chemistry, plant growth hormones work in these fields will involve interaction and collaboration with Department of Zoology, Entomology, Botany, Plant Physiology etc.

With the sophistication introduced in instrumentation, elucidation of structures has become relatively commonplace and the emphasis of this school must now shift from structural elucidation to other areas of natural product chemistry, which are of greater importance and relevance today. For example, this school must devote greater attention and interest to synthesis of natural products, not merely to prove the structures of products isolated in this laboratory, but as worthwhile activity in itself to synthesise some of the more challenging natural products, such as macrolides, prostanoids, complex indole alkaloids and terpenoids. This group should similarly orient itself and devote greater attention to problems in the field of chemotaxonomy and biogenesis, and general theoretical considerations

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based on the vast data at its disposal.

There is some interest in the department in the area of nitrogen heterocyclics, but this interest is directed more towards molecular alternations of known heterocycles to prepare compounds for a particular biological activity. A University chemical laboratory, which by its very nature is not likely to have facilities for biological screening, should devote greater attention to developing new heterocyclic systems or new methods of synthesis of heterocycles. Its main contribution has to be in the area of organic chemistry and biological evaluation should be only incidental.

There are some other areas in organic chemistry which also seem neglected in this department, such as physical organic chemistry, reaction mechanisms and study of new methods of organic synthesis. As these subjects have bearing on all aspects of organic chemistry, it is desirable that some of the faculty members should lay great emphasis on research in these areas so that the laboratory can have a real broad base of organic chemistry.

In the field of Inorganic Chemistry, work is in progress in the fields of Analytical Chemistry, Complexation reactions in solution, Organo-metallics and synthetic inorganic chemistry and Radiochemistry.

A large amount of work in analytical chemistry has been carried out during the past several years. A variety of ligands have been examined for the detection, separation and quantitative determination of common and uncommon metal ions. Extensive application is made of ion-exchange, solvent extraction, spectrophotometric and pH-metric measurements. Notable achievements have been the development of non-destructive microanalytical techniques based on electrography for estimation of metallic constituents in previous articles. Extensive use has been made of ring colorimetry, TLC chemical microscopy, DTA, electrophoresis, combined ion-exchange and solvent extraction (CIESE) using high molecular weight reagents and TDA studies of precipitation from homogeneous solution using potassium thiocarbonate. Important results are the determination of trace amounts of arsenic in tobacco and animal feeds, nickel in vanaspati and calcium in mineral waters and the development of new cationic precipitants for gravimetric and micro-analytical evaluation. These studies are being extended.

Stability constants of a number of metal complexes in solution involving both common and uncommon metal ions with various types of organic ligands have been

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determined. This work is now being enlarged to measure the thermodynamic parameters; these data would be very valuable in analytical chemistry, electrochemistry, and biochemistry.

A number of organo-metallic compounds involving both II and VI bonding have been synthesised. Cyclopentadiene and cyclooctatetraene metal complexes have been the subject of exhaustive studies. Important contribution to coordination chemistry has been the preparation and characterisation of Mn(II) in the spin quartet state for the first time; also the Fe has been shown to exist in spin quartet state. Intensive studies of the Mn(II) and Fe(III) complexes have been carried out by IR, NMR, Mossbauer and X-ray spectra methods.

Transition metal complexes are of real importance today because of their application as catalysts in many organic reactions of industrial importance. This should be the subject of study. Similarly this school should also devote attention to synthetic inorganic chemistry and solid state chemistry, which have so far found practically no interest here.

Apparatus has been designed and built to make accurate measurements of the specific heats of solids at low and high temperatures. It is proposed to develop the following new area of investigation;

(1) cryogenic studies of crystal paramagnetism
(2) studies of ferrite and antiferro-electric crystals with a view to develop industrially important materials
(3) study of nitrogen as ligand
(4) theoretical studies of convalences in lower symmetric ligand field.

Radiochemistry has been a branch of study in this Department for the many years. Surface inclusion, surface decontamination and ion-exchange phenomena have been the areas of study by tracer methods. It is proposed to develop this field with provision of up-to-date facilities both for research and teaching.

In the field of Physical Chemistry as well, the department has made significant contributions and has introduced courses on modern topics, such as, quantum chemistry, statistical mechanics, molecular structure and molecular spectra, structure determination by X-ray and electron diffraction methods, polymer chemistry, electrochemistry, chemical kinetics and quantum biochemistry. The various areas of research include : (1) Chemistry of fused salts, (2) Macro-molecular chemistry, (3) Structural chemistry of silicate minerals, (4) X-ray and electron diffraction studies, (5) Solution kinetics, (6) Radiation

chemistry & (7) Quantum chemistry and chemical spectroscopy.

Polymer Chemistry has found practically no interest in this Department. This is an important area, which, cuts across many disciplines, and should find due interest in the department.

The main areas of interest in Theoretical Chemistry relate to (1.) Quantum Chemistry of small molecules & (2) MO calculation of Oxygen heterocycles. Details with regard to distinct contributions made and work in progress in these areas are given in the technical report for the period 1963-73 made available to the Committee by the department.

General Observations:

The Chemistry Department on the whole is well equipped and has most of the important physical instruments which are needed for chemical research. However, it was rather disconcerting to see that a considerable amount of this equipment is either not constantly being used perhaps due to lack of facilities for maintenance and repair or is not freely available to everyone for use. It is necessary to develop a system where all these instruments could be centralised and day to day running and maintenance of these instruments could be left to technicians so that these instruments can be fully utilised and are freely available to everyone. It may be necessary to add one or two electronic/electrical engineers who could be entrusted with the work of repair and upkeep of these instruments.

We learnt that though an Advisory Committee for the Advanced Centre exists, it has not met for over two years. This Advisory Committee must meet at least once a year.

While going through the list of Lecturers and Readers we notice that a large number of them (over 66%) are graduates of Delhi University. This is not a very healthy practice for a University laboratory. This inbreeding leads to limited research interest. Traditionally University laboratories must not take their own students as faculty members unless they spend sometime in other Universities. Only in this way can there be a proper flow of fresh research interest and new ideas. This should be particularly so for a federal University like Delhi, which must maintain a national character.

We should support the organisation of instrumentation facilities as a centralised service which should be available to all the teachers and research students in

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the department. All the existing major instruments, particularly those valued at Rs.25,000/- and above including microanalysis, should be pooled in this central instrumentation and analytical service. The department already has a number of technicians who could be usefully utilised in operation and maintenance of these instruments. If more senior technicians are considered necessary, University Grants Commission may agree to provide marginal support. But such support should essentially be for providing one or two electronic engineers in the grade of Scientist B (Lecturer) to look after the repair and maintenance of the instruments, rather than their routine operation. For operating the instruments a B.Sc. with practical training would be adequate. Training facilities for operating almost all the instruments are available in some laboratories in the country, and if required some of the existing technicians could be sent to these laboratories for short periods. If in some special cases a technician has to be sent abroad for training as in the case of mass spectrometer because of the instrument having some special features, University Grants Commission may support this.

Financial assistance should be given for expanding the Library facilities and, in particular, for organising a text-book section for B.Sc. (Hons) and M.Sc. students. A number of sets of textbooks could be maintained and loaned to the students. Funds could perhaps be specially allotted for this purpose, as distinct from the general library funds. University Grants Commission could also consider increasing the Library grant to meet the rising costs of journals.

The University Grants Commission should provide a basic contingent grant per research student, upto a maximum of 2 students for a Lecturer, 4 for a Reader and 5 for a Professor. Some teachers may not have research students today, but if they can attract research students in the future, they should also be assured of the same financial support. Allotment of Rs.2,500/- per annum per student should be adequate.

In addition to the above, a block grant (of about Rs.5,000/-) may be given to the Department for providing teaching aids which the teachers may require for preparing teaching notes, or for purchase of some audio-visual aids for the students. Teachers who undertake to write text-books, are already assured of separate support by the University Grants Commission.

It was gratifying to learn that the administration of the Department is in the hands of an Executive Council consisting of Conveners nominated by teachers belonging to

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different disciplines and also a Committee consisting of all the faculty members. However, for more effective administration, it would be desirable to have all the Professors as members of this Executive Council. The essential point is that all the Professors who are senior faculty members must be a party to all decisions which involve policy matters. Only then can there be a sense of commitment on the part of the senior faculty members which is most important for the smooth running of the department.

This department should invite senior chemists from other laboratories in the country both for giving seminars as well as for short stay for periods varying from 2-6 weeks. In this way a greater interaction would occur between faculty members of this department with chemists from other laboratories working in different fields. This may even lead to joint programmes between Delhi University and other laboratories.

The following areas of chemistry are not adequately covered by the research interests of the existing faculty members. As these fields are of great importance, University Grants Commission should sponsor creation of senior positions to build up these areas. Promotion of the local staff members is not likely to serve the purpose. Scientists should be recruited for these subjects in senior positions (as Professors or Readers).

- (i) Physical organic chemistry - Reaction Mechanisms;
- (ii) Organic synthesis
- (iii) Bio-organic Chemistry
- (iv) Spectroscopy
- (v) Solid State Chemistry

Any other support to the department should be on the basis of individual schemes which would be considered on their merits.

Recommendations:

The Committee noted that the University Grants Commission had taken a decision that the existing level of recurring assistance for academic staff salaries, salaries of supporting technical and administrative staff and annual ceiling grants for a number of other recurring purposes would now become committed expenditure on the part of the University. Accordingly in the case of the Central

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Universities, these amounts would be taken over into the maintenance grant (block grant) payable by the University Grants Commission and the department would be assured of the present level of financial support in future years. In view of this and the recommendations made above by the Committee, the assistance to be made available during the Fifth Plan period for this Centre of Advanced Study to include all areas of major groups in the Department of Chemistry would therefore come from several sources viz.

(a) development grants available from the UGC to the University for their development schemes. The university should see that no department is denied its legitimate share of Fifth Plan grants on the pretext that they would receive support under the Centres of Advanced Study Programme. Proposals relating to the growth of the department particularly with regard to new courses of study, building up of the infrastructure facilities, laboratory accommodation, working expenses should be included in the Fifth Plan proposals of the University.

(b) The assistance to be made available under the Centre of Advanced Study Scheme will be mainly for purposes of research fellowships, scholarships etc., and for supplementing expenditure on library books and journals, departmental research working expenses and such other items required to strengthen the all-India activities of the Centre of Advanced Study.

(c) The department would be well advised to encourage individual groups of scientists as well as individual scientists in the department to prepare well defined research projects in accordance with the UGC's Scheme for support of research projects during the Fifth Plan period. The expenditure of support available for the research projects would naturally depend upon the strength and the nature of the programmes which the faculty members are capable of undertaking and acceptance of the proposals by the Science Research Council constituted by the University Grants Commission; and

(d) Any possible International assistance that may be available for the Centres of Advanced Study Programme through the agency of the University Grants Commission.

The Committee is compelled to record here its deep sense of sorrow and depression at the present state of affairs of organisation and administration of this department and earnestly request the University authorities to give special attention to these problems to get rid of the undesirable kinds of pressures and internal dissensions which are apparent. If these are not remedied soon, the danger of one of the premier institutions falling apart

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into pieces owing to complete erosion of authority and a total lack of cohesive effort which could bring together disparate elements and forces towards a common academic goal looms much. The University must make serious efforts to lessen internal dissensions and instead help to create a team spirit so that a coordinated academic programme can be pursued in this department. When so much effort and money have already been invested for this department and a large number of very capable teachers are on this staff and have in previous years made valuable contributions which have earned a place for Indian chemistry in the international sphere, everyone concerned should make sincere effort and build up this place rather than let it fall apart. The Committee brought this to the attention of the university authorities and fervently hopes that the situation would soon improve and the Centre of Advanced Study would regain its leadership in the field of Chemistry in the country.

The Committee is grateful to the university authorities, the Head of the Department and the faculty for the facilities given for its work during the visit to the Centre of Advanced Study.

University Grants Commission

General terms of reference for the Assessment Committees for evaluation of the work of the Centres of Advanced Study in Indian Universities

1. The Assessment Committee will visit the Centre concerned and hold discussions with the university authorities, the staff of the department and other research workers as may be considered essential, with regard to the various academic training and research programmes undertaken by the Centre consequent upon the Department being recognised as a Centre of Advanced Study by the UGC.
2. The Committee would look into the organisational and administrative aspects of the Centres particularly regarding identification of the Centre of Advanced Study ~~as~~ as an integral part of the Department concerned. It would also examine the aspects relating to measure of autonomy enjoyed by the Centres in implementing various programmes undertaken by them, within the existing university framework.
3. The Committee would examine the stage of development of the area of specialisation selected initially for special support and its impact on the total development of other disciplines within the Department.
4. The Committee would also examine the question relating to the advisory committees appointed for each Centre of Advanced Study with regard to their composition role and effectiveness in furthering the activities of the Centre, such as, (a) functioning of the Centre of Advanced Study as an all India Centre with regard to recruitment of staff, students intake, and inter-action with other departments in the subject concerned and possible influence in raising of standard of teaching and research in the subject concerned; (b) new courses developed either at the post-B. Sc. or post-M. Sc. level, pre-Ph. D. programmes etc., in addition to the usual undergraduate and postgraduate programmes and (c) steps taken by the centres to function as focal points of growth, development and modernisation of the academic system.
5. The Committee would also look into the future programmes of work in the next five years and

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the financial requirements of the centres in this regard . The continued assistance from the UGC to the Centres of Advanced Study, after 1973-74 would be subject to evaluation made by the Committee and its recommendations to be considered by the Commission. The assistance would be continued only where the Centres have earned the recognition and have made sustained and continued effort for attaining the highest standards possible in the academic training and research activities.

6. Any other aspect with regard to the functioning of the Centres as may be considered essential by the Assessment Committee.

Appendix II

CENTRE OF ADVANCED STUDY IN CHEMISTRY
UNIVERSITY OF DELHI.

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<u>Non-recurring</u>		<u>Grants approved during</u>	<u>Grants released</u>
<u>Item</u>		<u>IIIrd Plan</u>	
1. Building	Rs.	3,00,000	
2. Equipment & Furniture	P	3,50,000	2,80,000
3. Books & Journals	P	50,000	50,000
<u>Recurring</u>			
1. <u>Academic Staff</u>		<u>Approved during</u>	<u>Filled up</u>
	<u>Name of Post</u>	<u>III Plan</u>	
	Professor	1	1
	Readers	3	3
2. <u>Research Associates</u>		2	2
	Sr. Research Fellow	2	-
	Jr. Research Fellow	6	4
2. <u>Coiling grants</u>			<u>Amount approved</u>
	Administrative & Technical Staff		48,000
	Books & Journals		30,000
	Contingencies		30,000
	Publications & Travels		15,000
	Seminars		30,000
	Other Expenditure		20,000

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CENTRE OF ADVANCED STUDY IN CHEMISTRY,
DELHI UNIVERSITY,

Non-recurring:

<u>Item:</u>	<u>Grant approved during IV Plan period</u>	<u>Grants released upto date</u>
Equipment	3,50,000	3,07,000
Books & Journals	70,000	85,000
Addl. for 1972-73	15,000	
Addl. for 1973-74	15,000	
	<u>1,00,000</u>	
Chemicals & Glassware	1,00,000	1,00,000

Recurring:

1. Academic Staff:

<u>Name of Post</u>	<u>Approved</u>	<u>Filled up</u>
Professor	1	1
Readers	4	4
Research Associates	2	Vacant
Sr. Research Fellowships	2	2
Jr. Research Fellowships	6	6
National Scholarships	6	6

2. Ceiling grant

1. Admn: & Tech. Staff
2. Visiting Fellows
3. Books & Journals
4. Seminars
5. Contingencies
6. Publications & Travel
7. Miscellaneous

Amount approved

Rs.
48,000
15,000
15,000
10,000
10,000
10,000
30,000

UNIVERSITY OF DELHI
DEPARTMENT OF CHEMISTRY

Appendix III.

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Assistance received from other agencies:

Sr.No.	Name of the Donor from whom gifts received	Name of the Department scheme	Particulars of gifts/ donations received	Date of receipts	Approximate value in Indian Currency	Remarks if any.
1	2	3	4	5	6	7
	United Nations Development Programme	Centre of Advanced Study in Chemistry	1. Mass spectrometer(1)	1963-70		Not working
			2. Automatic two-ray infrared spectrophotometer(1)			-do-
			3. Refrigerated centrifuges (2)			-do-
			4. Horizontal autoclaves(2)			-do-
			5. Vertical autoclaves(2)			-do-
			6. All metal vacuum steam oil diffusion pumps(1)			-do-
			7. Microanalytical balances(2)			are in working condition
			8. Torsion balance(8)			-do-
			9. Chromothermographs(4)			Not working
			10. Drying cabinets (4)			are being used
			11. Electric Motor driven lab. ball mills(2)			Not being used
			12. Instruments for halide semimicro			-do-
			13. Semi-micro balances(7)			are being used
			14. Refractometer Abbe/Model (1)			is in working order
			15. 6-nests tubular ovens(4)			are in working order
			16. Centrifuges bench type(12)			-do-
	-do-	-do-	17. Vacuum drying ovens(4)			are being used
			18. Micromilliamphero-ameters(4)			-do-
			19. Carbon, Hydrogen dot. apparatus(4)			are in working order
			20. Electrophoresis apparatus(4)			-do-
			21. Micro-titration assembly(10)			-do-
			22. Nitrogen dot. assembly(2)			-do-
			23. High vacuum pumps(6)			are being used
			24. Constant Temp. Thermostatic baths TC-16(10)			are being used after modifications
			25. Electric furnances(2)			Can be put to use after modification in voltage

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1	2	3	4	5	6	7
-do-	-do-		26. Super centrifuges(4).			Not in working order
			27. Lab. autotransformers(2)			are being used
			28. lab. autotransformers small size(10)			-do-
			29. Valve, 6N9C(16)			these are spared for mass spectrometer.
			30. A. C. Stabilisor(4)			are in working condition
			31. Film projectors(2)			-do-
			32. Agate mortar with pestle(4)			are being used
			33. Gas cylinders(10)			are in working order
			34. Fixed lab. centrifuges(4)			are in working order
			35. Lab. Centrifuges(6)			are being used
			36. Shakers for tubes(4)			-do-
			37. Field binoculars(4)			are in working condition
			38. Photographic cameras(2)			-do-
			39. Recording spectrophotometer(1)			is being used
			40. Stereoscopic microscopes(2)			-do-

Note: Number in brackets indicates the actual number of each unit.

The approx. cost of the above equipment comes to about

1,41,000/-roubles(Vide our letter No.R.E./69-70/1728 dated 1/3rd Sept., 1969 addressed to the Registrar, University of Delhi, Delhi-7).

-do-	-do-	41. Spectrophotometer Aug. 1971 IKS-22	15,381 Roubles	Not yet installed
-do-	-do-	42. -do- SF-16(2) Nov. 1971	25,240 Roubles	Not yet installed
		Total approximate cost	Roubles 3 205,174	7,500

	1	2	3	4	5	6
B.	1.	U.S.A. Aid Loan Programme (Dollar Loan)	Chemistry	Conductivity Bridge(1 Nos) with electrodes, Beckman Model RC-18A.	14.1.1971	Rs. 7,831.70
	2.	-do-	-do-	Glass Electrodes E-3,6 Nos. " " G 6 Nos.	14.1.71	Rs. 3,524.04
	3.	-do-	-do-	1000 MI Photo-chemical (2 Nos)	14.1.71	Rs. 51,121.15
	4.	-do-	-do-	High Intensity Monochromator (230 V. 50 cps)	14.1.1971	Rs. 32,176.01
	5.	-do-	-do-	4-809, Integrating (3 Nos) Weiresnberg Coniometer	14.1.71	Rs. 77,953.50
	6.	-do-	-do-	Collimeters, 4805 (3 Nos) Chemtrix Model SSP-2 Three electrodes for photographic Analyzer system	19.6 71	Rs. 23,493.60
	7.	-do-	-do-	Come Drive Stirrer(2 Nos)	3.2.72	
	8.	-do-	-do-	Porta-Cool(Thermometer, Immerscon cooler		

Rs. 1,76,100.00

DEPARTMENT OF CHEMISTRY
UNIVERSITY OF DELHI

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Sr No.	Name of the Donor from whom gifts received.	Name of the Department/ Scheme	Particulars of gifts/ Donations received	Date of receipts	Approx. value in Indian Currency	Remarks if any
1.	Ford Foundation Assistance Programme California Institute of Technology U.S.A.	Chemistry	Vapour Pressure Osmometer with its spares	12.3.69	Rs. 53,101	-
2.	-do-	-do-	Research pH Meter with Spares	17.4.69	Rs. 18,082	
3.	-do-	-do-	Programme 101 with extra Cards	17.4.69	Rs. 28,990	
4.	-do-	-do-	Analytical Ultracentrifuge and its spares (Model E)	17.4.69	Rs. 2,74,049	
5.	-do-	-do-	Divisuma 24 G.T. (2 Nos)	17.4.69	Rs. 8,659	
6.	-do-	-do-	Conductance Bridge L & N Model	23.5.69	Rs. 6,694	
7.	-do-	-do-	Conductivity Bridge (3 Nos)	7.7.69	Rs. 36,784	
8.	-do-	-do-	Automatic Titrator	7.7.69	Rs. 29,628	
9.	-do-	-do-	Stereomodels	18.8.69	Rs. 2,380	
10.	-do-	-do-	B.S. Polarimeter	3.9.69	Rs. 18,800	
11.	-do-	-do-	Expandomatic pH Meter (2 Nos)	28.9.69	Rs. 13,373	
12.	-do-	-do-	Function Generator	25.11.69	Rs. 6,814	
13.	-do-	-do-	Fused Quartz ground & Polished discs	25.11.69	Rs. 271	
14.	-do-	-do-	Cenco wheat stone Bridge	25.11.69	Rs. 1,572	
					<u>Rs. 4,83,897</u>	

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1	2	3	4	5	6	7
15.	Ford Foundation Assistance Programme California Institute of Technology U.S.A.	Chemistry	310 Curve Resolver	25.11.69	Rs.	48,945
16.	-do-	-do-	Profile Projector	16.12.69	Rs.	19,128
17.	-do-	-do-	Oscilloscope Camera	26.12.69	Rs.	8,546
18.	-do-	-do-	Vitiz Freeze Drawing Unit	22.1.70	Rs.	9,646
19.	-do-	-do-	Gamma Cell	22.1.70	Rs.	1,53,499
20.	-do-	-do-	Teaching Models	28.1.70	Rs.	1,152
21.	-do-	-do-	Atomic Orbital Model	14.2.70	Rs.	2,029
22.	-do-	-do-	D.T.A. Furnace	14.2.70	Rs.	10,012
23.	-do-	-do-	Mercury Vapour Lamp	19.2.70	Rs.	3,817
24.	-do-	-do-	Oscilloscope	25.3.70	Rs.	9,814
25.	-do-	-do-	Monochromator (Crating)	7.8.70	Rs.	11,423
26.	-do-	-do-	-do-	7.8.70	Rs.	31,866
27.	-do-	-do-	Research Models	7.8.70	Rs.	4,465
28.	-do-	-do-	Current Time Integrator	30.10.71	Rs.	3,528
29.	-do-	-do-	Micrograph Record	30.10.71	Rs.	12,984
30.	-do-	-do-	I.R. Compensator	30.10.71	Rs.	10,052
31.	-do-	-do-	Small Angle Scattering Gonimeter	12.2.72	Rs.	31,859
32.	-do-	-do-	Polarograph	22.2.72	Rs.	50,172
					Rs.	<u>9,06,834</u>

I. NATURAL PRODUCTS CHEMISTRY

Professors

1. Prof. V. V. S. Murti
(Head of the Deptt.)
2. Prof. S. Rangaswami
3. Prof. T. R. Seshadari

Readers

1. Dr. M. K. Murthi
2. Dr. S. R. Gupta
3. Dr. G. B. V. Subramanian
4. Dr. T. R. Rajagopalan
5. Dr. V. K. Ahluwalia
6. Dr. S. S. Chibber
7. Dr. H. G. K. Murti
8. Dr. S. K. Grover

Lecturers

1. Dr. G. R. Nagarajan
2. Dr. M. R. Parthasarthy
3. Dr. A. S. Kukla
4. Dr. D. K. Bhardwaj
5. Dr. R. N. Khanna

II. ORGANIC CHEMISTRY

Professors

1. Prof. K. B. L. Mathur
2. Prof. G. S. Saharia

Readers

Lecturers

III. PHYSICAL CHEMISTRY

Professor

1. Prof. H. C. Gaur

Readers

1. Dr. B. D. Khosla
2. Dr. (Miss) M. Atreyi
3. Dr. M. V. R. Rao
4. Dr. N. R. Banerjee
5. Dr. V. M. Khanna
6. Dr. B. K. Sharma

Lecturers

1. Dr. H. C. Malhotra
2. Dr. S. K. Chatterjee
3. Dr. B. S. Kapoor
4. Dr. A. K. Banerjee
5. Dr. (Miss) J. Nagchaudhury
6. Dr. H. K. L. Verma

IV. INORGANIC CHEMISTRY

Professors

1. Prof. R. P. Singh
2. Prof. B. D. Jain (Retired)

Readers

1. Dr. K. R. Kar
2. Dr. K. N. Johri
3. Dr. M. Lahiri
4. Dr. R. K. Multani
5. Dr. A. N. Bhat.

Lecturers

1. Dr. Yag Dutt
2. Dr. H. B. Singh
3. Dr. S. K. Sindhwani
4. Dr. P. S. Zacharia
5. Dr. B. S. Garg
6. Dr. N. K. Kaushik
7. Dr. A. K. Banerjee
8. Dr. K. B. Pandey
9. Dr. A. N. Maitra

V. THEORETICAL CHEMISTRY

Professor

Readers

1. Dr. K. V. Sane
2. Dr. N. K. Ray

Lecturer

1. Dr. M. M. Kapoor

Revised proposals of the CAS in Botany in response to UGC letter
 No. F. 9-11/75 (Sc.II/SR-I) dated 25th March, 1976

Annexure V to *Item 13*

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Item	Existing facilities under maintenance (including that taken over from CAS from 1.4.74 (for one year)	Provisions available at present under Vth Plan accepted by the UGC	Basic grants already approved under Vth Plan & for CAS grants	Additional requirements proposed under CAS scheme for Vth Plan (for 5 years) (Rs)	Remarks/ justification for additional requirements
NON-RECURRING:					
Furniture & fittings for Lab & Library expansion				50,000	
Equipment and Glassware		1,00,000	2,00,000	4,00,000	
Books & Journals		60,000	1,00,000	1,60,000	
Growth Room chamber improvements				25,000	
Additional funds for purchase of Jeep				<u>50,000</u> 6,25,000	
RECURRING: (Sanctioned for Main Botany Deptt.)					
Teaching Staff	1,76,000	1,50,000	(2 Readers + 2 Technicians)	2,80,000	
Technical & Admn. Staff	94,000	77,000		4,64,000	
Books & Journals	37,500			1,50,000	
Contingency	45,000			1,00,000	
Visiting Fellows	10,000			25,000	
Travel	5,000			50,000	
Seminar	5,000			25,000	
Senior Res.Fellows (2)				73,600	
Junior Res.Fellows (4)				<u>1,10,400</u> 12,78,000	

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University of Madras: Centre of Advanced Study
in Botany Revised Fifth Plan proposals

Budget Head	V Plan requirements
<u>NON-RECURRING</u> (Rs)	
1. Furniture and fittings for laboratory and Library expansion	50,000
2. Equipment and Glassware	4,00,000
3. Books and journals	1,00,000
4. Growth Room Chamber improvements	25,000
5. Additional funds for purchase of Jeep	50,000
	<u>6,25,000</u>
<u>RECURRING</u>	
1. Two Professors	2,80,000
2. Two Demonstrators/Teaching Assts.	75,000
3. One Electronic Technician/Senior Technician	73,000
4. One Technician	40,000
5. One Culture Collection Assistant	36,000
6. Two Herbarium Assistants	72,000
7. One Senior Secretary	65,000
8. One Store Keeper	38,000
9. One Senior Photographer	65,000
10. Contingency	1,00,000
11. Visiting Fellows	25,000
12. Books and journals	1,50,000
13. Travel	50,000
14. Seminar	25,000
15. Senior/Fellows--(Two) Research	73,600
16. Junior Research Fellows (four)	1,10,400
	<u>12,72,000</u>

GRANTS REQUESTED FOR Vth PLAN PERIOD
 Non-recurring Rs. 6,25,000
 Recurring Rs. 12,72,000
 Total: Rs. 19,03,000

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Additional staff requested for under Fifth Plan proposals

1. Two Professors (1500-60-1800-100-2000-125/2-2500)
2. Demonstrators/ (Two) 325-15-500
Teaching Associate
3. One Technician 350-20-450-25-600
4. Electronic Technician/ (one) 400-40-800-50-950
Senior Technician
5. One Culture Collection 325-15-520
Assistant
6. Two Herbarium Assistants 325-15-520
7. One Senior Secretary 650-30-800-50-1000
8. One Store Keeper 350-15-500
9. One Senior Photographer 650-30-800-50-950

UNIVERSITY OF MADRAS : : DEPARTMENT OF BOTANY
(MAIN DEPARTMENT)

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Provision already made by the UGC under
Vth Plan for the Main Department

Recurring:

Teaching Staff:

2 Readers (1 Algology, 1 Mycology) Rs. 1,50,000

700-50-1250

2 Technicians

350-20-450-25-600 77,000

2 UGC Junior Research Fellowships @ Rs. 400/- p.m.
with contingency.

Report of the Assessment Committee for the
Centre of Advanced Study in Botany, Madras
University.

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The University Grants Commission, in accordance with the recommendations made by its Standing Committee for the Centres of Advanced Study Programme, appointed an Assessment Committee consisting of the following members to evaluate the work done by the Centre of Advanced Study in Botany, Madras University since its recognition ten years ago in 1963-64:

- (1) Professor S.M. Sircar
Director
Bose Institute
Calcutta
- (2) Dr. M.J. Thirumalachar
Director
Hindustan Antibiotics
Pimpri
Poona
- (3) Dr. D. Shankar Narayan
Additional Secretary
University Grants Commission

The Committee visited Madras University on 23rd January, 1974. The Committee examined the various laboratory, library and field station facilities available and had discussions with the university authorities and the various research groups in the Centres of Advanced Study.

The Department of Botany, University of Madras was recognised in 1963-64 by the University Grants Commission as a Centre of Advanced Study in Botany with emphasis on Plant Pathology and Micology. At the time of recognition, the department had made substantial contributions in these fields and also in the field of Algology and had come to be recognised internationally as one of the active centres of research in these subjects. At the time of the recognition of this centre the strength of staff was only one Professor, two readers, three lecturers and one research assistant. Subsequent to the recognition of this department as a Centre of Advanced Study, the University Grants Commission provided substantial assistance for improving its laboratory and library facilities, acquisition of sophisticated scientific equipment and appointment of academic and other supporting technical and administrative staff. The details of the

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assistance available by the Commission and also the assistance made available to it through the UNESCO and U.K. Programme of Assistance are given in Appendix-I.

The present strength of this department is three professors, five readers and eight lecturers, besides 20 research fellows and adequate number of technical supporting staff and administrative staff. The department is well equipped for research in Morphology and Taxonomy of Algae and Fungi. It is also well equipped for research in Physiology particularly the Physiology of Host-Parasite relationships in plants and soil mycology. The department has a number of sophisticated equipment required for physiological studies of biological systems, such as, equipment for Chromatography, Respirometry, Spectrophotometry, Flame Photometry etc. It also has an Electron Microscope, a Mass Spectrometer and a medium quartz and IR Spectrographs; an isotope-tracer laboratory and a serological laboratory are also available. The department maintains a rich collection of Algae, Fungi and Bacteria as well as a well equipped Reference Herbarium of marine, green, brown and red algae from various parts of the world including some of the valuable collections of Professors M.O.P. Iyengar and Boergesen. There is also a Mycological Herbarium, representative of most of the South Indian Fungi.

Another important facility available for this department for field work is the Field Laboratory-cum-Farm at a distance of about 8 miles at Maduravoyal where facilities have been created for growing crops in experimental plots and testing out laboratory results on a field scale. This field unit is 5.76 acres in size and the laboratory has necessary basic facilities for work in the areas of Plant Pathology and Phytotoxicity. It also has some residential accommodation for students and supporting staff.

The Centre's library has a very rich and authentic collection of books and periodicals in the areas in which this department specialises. During the past ten years, it has acquired 1600 volumes of books and presently subscribes to nearly 75 journals of importance in fields of Algology, Mycology and Plant Pathology.

The department initially started as a university research laboratory and had very minimal teaching responsibilities. Until 1967-68 the staff of the department participated in the inter-collegiate M.Sc. programmes and provided instruction in special papers in the areas of Algology, Mycology, Plant Pathology and Plant Physiology.

From 1967-68 the department organised a one year post-M.Sc. diploma course in Algology and another course in Mycology and Plant Pathology. The course is supported by award of fellowships to students admitted on an all-India basis. This course equips candidates with the necessary background knowledge and training in techniques essential for work leading to Ph.D. in the specialities of this department. So far 38 students have taken these courses. Although the department is not involved in a formal M.Sc. teaching programme of its own, the faculty of the department have taken considerable interest in the organisation of summer institutes, curriculum development and writing of monographs and books. The department also has organised a number of symposia and international conferences. It has also conducted short term courses with the help of UNESCO for the benefit of teachers and research workers from member states in the South Asian Region. The number of Ph.Ds produced during the period since 1964 is 34 and the number of publications exceeds 250 in Indian and International journals. The research programmes of the department have a distinct inter-disciplinary character.

The Committee during its visit had detailed discussions with the major research groups as listed below:

- (1) Mycology - three faculty members and six research workers;
- (2) Algology - three faculty members and six research workers;
- (3) Plant Pathology- 11 faculty members and 14 pre-doctoral and post-doctoral workers.

The research programmes undertaken by these three major groups are given below:

(1) MYCOLOGY

- (a) Morphology and taxonomy of Hyphomycetes
- (b) Morphology and taxonomy of Coelomycetes
- (c) Conidial morphogenesis in Fungi Imperfecti
- (d) Ecological studies of Coprophilous and rhizosphere mycofloras
- (e) Morphology, Taxonomy and ecology and fungi of marine and brackish environments
- (f) Medical mycology

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(2) ALGOLOGY

- (a) Morphology and taxonomy of freshwater, marine and soil algae
- (b) Experimental taxonomy of algae
- (c) Nitrogen fixation by blue-green algae
- (d) Thermal algae
- (e) Algae and biological productivity

(3) PLANT PATHOLOGY

- (a) Wilt disease of cotton with special reference to physiology and biochemistry of the diseased plant.
- (b) Blast disease of paddy with special reference to genetic varieties of paddy, variation of the pathogen and the physiology of the diseased rice plant.
- (c) Fusariose disease of plants - role of toxins and enzymes in the disease syndrome - problems of host resistance
- (d) Physiology of the 'Tikka' disease of groundnut
- (e) Physiology and metabolism of fungal spores - undospores of Puccinia graminis tritici, spores of Fusarium and Collectotrichum
- (f) Immunoserological approach to the study of some pathogenic fungi
- (g) Plant viruses and virus diseases such as Dolichos enation mosaic
- (h) Rhizobia and nodulation in legumes with special reference to physiology of nitrogen fixation
- (i) Osmoregulation in pathogenesis
- (j) Phytotoxicity
- (k) Biosynthesis of toxins of Pyricularia using tracer techniques

- (l) Nitrogen fixation - physiology and biochemistry
- (m) Studies on Verticillium wilts
- (n) Studies on the microbiology and physiology of mushroom cultivation.

During the course of the discussions, the Committee made efforts to understand the value and importance of each of these research programmes and also the problems faced by the different groups. While the groups in Mycology and Algology have some common programmes, the groups need to be considerably strengthened. On the other hand, the Plant Pathology Group put together is quite large and . . . viable but it was noticed that within this Group a large number of smaller groups exist with varied interests in the areas of wilt disease and plant viruses, and Nitrogen fixation studies, Plant Pathology, Blast diseases etc. Some of the faculty members have no research students attached by them. While the Committee is appreciative of the work done by this group of workers and the International reputation and contacts established by them, the Committee would, however, like to draw the attention of the Centre to some of the comments made by the same Assessment Committee members who had visited this Centre in December, 1935. The Centre over the past years has been able to accumulate considerable data of importance particularly in the areas of Studies of Blast Disease and Wilt and also Host-Parasite relationships. It would therefore seem appropriate that the accumulated data is put together to arrive at some general principles rather than continue to accumulate primary data on wide groups of plants and continuing the work along the same lines in future years also. The interaction that exists at present between different smaller groups would further be strengthened if the major groups could identify a core programme of activity which could be treated as the long range research effort and the short term problems are mainly investigated with the help of Ph.D. scholars and post-doctoral workers. It would appear that a substantial part of the research effort of this department is Ph.D. theses based. The faculty, as earlier indicated, has very well qualified and established workers in these areas in this country. They should therefore be able to work out major research programmes on a long term duration and establish cross links between different areas of research going on in the department. This would also help in maximum utilisation of the equipment and other specialised facilities available. It could also establish a central facilities unit for use by all staff and students. Similarly

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the collaboration programmes with British Universities under the U.K. Assistance Programme could be better organised so that the visits either way from India to U.K. could be linked up with the long range research activities of the Centre.

The Committee feels that with the staff and facilities available in the department, the Centre would be well advised to have its own programme for M.Sc. teaching. Such an M.Sc. programme of two years could replace the existing diploma courses and would provide better training to students in the inter-disciplinary aspects of plant sciences and modern biology. The Committee was given a draft outline of this proposed course which the department wishes to introduce. Such a course besides being well conducted with the help of the highly qualified staff in the Centre, would also help in improving the quality of instruction generally in the affiliated colleges which have been permitted to conduct postgraduate classes by Madras University.

During the last visit the Committee had noticed that the field station was well utilised and a number of experiments were in progress. On the other hand, at the time of the current visit the field station had received considerable set-back and to some extent neglected as well. Perhaps one of the causes appears to be that the staff take up problems of a fundamental nature which keeps them bound within the laboratories and dependant upon sophisticated equipment. The results obtained in the laboratories on fundamental studies should be suitably extended to field testing purposes. Thus the field station should be utilised by almost every research worker in the department; while there may be some staff and research students with greater need of the field station, it would not be appropriate for the other faculty to keep away from field experiments. The department has necessary transport facilities to link up the main laboratories and the field station. The Committee hopes that the field station would be revived into full activity without further delay.

During the discussions the Committee got acquainted with a few problems faced by the Centre with regard to delays in selection of research students, delays in payments of scholarship amounts, inadequate hostel facilities for research students and the restriction imposed by the university that a student can stay in the university hostel for a maximum of three years only during his M.Sc. and Ph.D. career, difficulties with regard to procurement of equipment and lack of foreign exchange etc. These aspects were discussed with the university authorities and the Committee was assured that the necessary measures would be taken to

overcome the same. Also the Advisory Committee of the Centre, has not met for over 2 years. The meetings should be regularly convened by the Head of the Centre in consultation with the Vice-Chancellor. The Advisory Committees, as envisaged by U.G.C., have a very useful role to play in the functioning of the Centres.

The Committee wishes to record here that this centre of advanced study has fully justified its recognition and assistance by the University Grants Commission and had made substantial contributions over the past ten years in the areas of Plant Pathology, Mycology and also Algology. It would therefore be appropriate to provide continued support for the various programmes proposed to be undertaken keeping in view the suggestions made by the Committee in its earlier report and also in the present report. Professor T.S. Sadasivan, under whose able leadership the Centre was able to build up its activities and reputation, has since retired from the university service. Professor Sadasivan is very actively interested in his research programmes and it would therefore be of great value and advantage to this centre to have the continued association and advice, of Professor Sadasivan - Perhaps as an Emeritus Professor. He would be able to usefully contribute not only to guide research activities but also to bring out a number of useful monographs and books for use by research workers in the areas of Blast Disease, Wilt Disease in plants and plant-microbe-relationships, in all the three areas in which the Centre has a large amount of useful data accumulated over the years. The Committee hopes that the university authorities would encourage and make such association of Professor Sadasivan with the Centre a reality.

The Committee was informed that the University Grants Commission had decided that the existing level of recurring assistance to the Centres of Advanced Study would become committed maintenance expenditure on the part of the university; concerned at the end of te-year period on 1st April, 1974. It also understands that further support to this Centre under the Centres of Advanced Study Programme would be decided on the basis of the recommendations of the Assessment Committees and that the centres should hope to receive substantial support by way of well defined research projects also. The Committee feels that the present level of establishment and support if continued to be made available by the university would provide a viable base on which the Centre can continue effectively its programmes in

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future. The staff of the centre should be able to write well defined research programmes of importance and receive substantial support from the Science Research Council grants of the U.G.C. However, in order that the centre's activity can grow and the centre could add permanently to its facilities and staff strength and also initiate the proposed two-year M.Sc. programme, it would be necessary for it to receive, besides the normal fifth plan assistance, some support under the Centres of Advanced Study Programme also. This assistance would be particularly required to augment its library facilities, working expenses of the main laboratories and the field station, working expenses for some of the sophisticated equipment and also a basic grant for meeting the expenses of the large number of research workers, say, about Rs.2,000/- p.a. per student. The Commission may also provide some assistance to the university for augmenting the hostel facilities so that the research students will be able to obtain accommodation without difficulty.

The Committee strongly recommends that the proposals to be made by the centre in this regard should be favourably considered by the Commission. The Commission should ensure that in the case of the centres of advanced study, such as, this one which have done work of higher quality and have usefully utilised the assistance made available so far and have organised themselves as viable schools of research in selected disciplines would not be subjected to vagaries of financial support, thus endangering the viability of the schools. The Commission may also increase the number of fellowships and scholarships available and also provide for additional staff positions and see that the selection of students and staff is made on an all-India basis.

The Committee is grateful to the staff of the centre and the university authorities for the facilities provided for its work.

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Centre of Advanced Study in Botany - Madras University

Non-Recurring:

<u>Item</u>	<u>Grants approved during IV Plan period</u>	<u>Grants released up to date</u>
1. Field Laboratory Building	Rs. 2,00,000	Rs. 2,00,000
2. Additional grant for Field Laboratory	Rs. 35,000	Rs. 35,000
3. Construction of Controlled Growth chambers glass-house	Rs. 1,50,000	NIL
4. Equipment & Furniture	Rs. 3,00,000	Rs. 2,50,000
5. Books & Journals	Rs. 95,000	Rs. 95,000
6. Dormitory cum-guest House	Rs. 1,00,000	Rs. 75,000

Academic Staff:

<u>Name of Post</u>	<u>Approved</u>	<u>Filled up</u>
Professors	1	1
Readers	4	4
Lecturers	5	5
Senior Research Fellows	5	4
Junior Research Fellows	6	6

Recurring:

<u>Items</u>	<u>Amount approved</u>
1. Admn. & Technical Staff	Rs. 40,000
2. Visiting Fellows	Rs. 10,000
3. Books & Journals	Rs. 37,500
4. Contingencies	Rs. 45,000
5. Publications	Rs. 5,000
6. Travels	Rs. 5,000
7. Seminars	Rs. 5,000

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Centre of Advanced Study in Botany - Madras University
Exchange of CAS Visitors 1968/69 to 1972-73

From Britain to India : Eleven

- 1968-69 Dr. F.E. Round
 Reader in Botany
 Bristol University
- 1969-70 Mr. A. D. Greenwood
 Senior Lecturer
 Imperial College of Science & Technology
 London
- Dr. M.F. Madelin
 Reader in Botany
 Bristol University
- 1970-71 Dr. Ivor Isaac
 Department of Botany
 University College of Swansea
- Dr. R.M. Jackson
 Department of Biological Sciences
 University of Surrey
- Prof. W.G. Keyworth
 National Vegetable Research Station
 Warwick
- Dr. G.F. Pogg
 Department of Biological Sciences
 University of London
- 1971-72 NIL
- 1972-73 Prof. T. Bennett-Clark
 Professor Emeritus of Biology
 University of East Anglia
 Norwich
- Dr. A.C. Hastie
 Lecturer in Botany
 Bristol University
- Prof. C.T. Ingold
 Department of Botany
 Birbeck College
 London University
- Dr. M.C. Shephard
 Plant Protection Expert
 Plant Protection Ltd.
 Jedlott's Hill Research Station
 Bracknell,
 Berkshire.

Statement showing Unesco/UNIP assistance made available to
CAS in Botany, University of Madras during 1964-72

EQUIPMENT AGAINST DOUBLES

<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>Total</u>
31,849	4,798	80,228	23,216	-	14,704	-	16,525	2,319	173,640

EQUIPMENT AGAINST CONVERTIBLE

Currency (US \$)

-	5,356.70	1,209.10	246.50	5343.90	2741.02	-	-	-	14,897.22
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CONSULTANTS

<u>S.No.</u>	<u>Name of consultant</u>	<u>Duration of stay</u>
1.	Acad. N.A. Krassilnikov	Jan. - April '64
2.	" " "	Dec. '64 - Feb. '65
3.	" " "	Jan. - March '66
4.	Dr. O.G. Shirokov	Jan. - April '64
5.	Dr. A.G. Kuchaeva	Dec. '64 - Feb. '65
6.	Prof. M.V. Aseyeva	March '66
7.	Dr. I.V. Aseyeva	Jan. - March '66
8.	Mrs. L.M. Levkina	March '66
9.	Mr. Guelikh	1967
10.	Mr. Pilipenko Tech.	

FELLOWSHIPS

<u>S.No.</u>	<u>Name of the Fellow</u>	<u>Period/duration of Training</u>	<u>Country of training</u>
1.	Dr. C.B. Sulochana	Oct. 65-July 66	10 months USSR
2.	Dr. K. Narayanaswamy	Mar. 66-Sept. 66	6 " USSR
3.	Dr. N. Rajagopalak Iyer	Aug. 69-Feb. 70	9 " USSR
4.	Sh. H.J. Ephraim (Tech)	1970-71	6 " U.K.
5.	Dr. V. Arjuna Rao	1970-71	8 " USSR
6.	Dr. P.N. Raju	Sep. 71-July 72	9 " U.S.A.
7.	Dr. K.M. Rao	Sep. 71-July 72	9 " USA/UK
8.	Sh. S.K.P.R. Singh (Tech)	Sep. 72-Mar. 73	6 " W. Germany
9.	Dr. K. Natarajan	May 73-Jan. 74	9 " U.S.A.
10.	Dr. V.N. Reja Rao	March-Nov. 73	9 " U.S.A.

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Position of grants sanctioned/paid to Madras University
in respect of the Department of Botany by Science I
Section during the 4th Plan period.

Purpose	Grants allocated		Grants paid	Remarks	
	Basic	+ Vols			
Equipment	80,000	1,25,000	2,05,000	1,74,994	A further on account grant of Rs. 25,000/- is being sanctioned against the request received vide University's Letter No. 77/3-1/67/IG/C. 3841. dated. 22.11.1973

Books & Journals:

-	25,000	25,000	25,000	-
Building	-	-	-	-
Staff	-	-	-	-

FIFTH PLAN PROPOSALS FOR C. A. S. IN ASTRONOMY

(Submitted in accordance with U.G.C. letter
No. F.5-1/75(SR.I) dated 3-2-1976)

Our aim is to achieve full utilization of the 48-inch telescope of Japal-Rangapur Observatory and the 8-inch and 15-inch telescopes of Mizanah Observatory. It is proposed to make observations on every clear night, as far as possible, in respect of the following observational programmes :

1. Photoelectric and spectroscopic studies of binary stars.
2. Spectroscopic studies of emission line stars of early and late types, e.g. Be stars, Carbon stars, R Cor Ber stars; etc.
3. Spectroscopic studies of low light level objects such as gaseous nebulae, night airglow, etc.
4. Spectroscopic and photometric investigations of planetary atmospheres, meteors and asteroids.
5. Optical identification, photometry and spectroscopy of discrete radio and X-ray sources.
6. Observations of infrared sources.
7. Proper motions of stars in the Hyderabad zones of the Astrographic catalogue.

The above observational research will be supplemented by theoretical investigations in stellar dynamics, radiative transfer and line formation in planetary atmospheres. The centre will also continue its programme of training astronomers and stimulating the development of astronomy and astrophysics in other Indian Universities.

The U.G.C. has put a ceiling of Rs. 20 lakhs for each centre of advanced study. The proposed expenditure for C. A. S. in Astronomy on various items within this limit is summarised below:-

I. Non-Recurring Expenditure:

A. Equipment	Rs. 7,00,000/-
B. Buildings and Furniture ..	4,00,000/-
C. Books and Journals	1,00,000/-

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II. Recurring Expenditure:

D. Contingencies at Rs. 1.35 lakhs per annum for 3 years	4,05,000/-
E. Additional staff at Rs. 1.2 to 1.4 lakhs per annum for 3 years	3,95,000/-

Total for Fifth Plan Rs. 20,00,000/-

This figure includes a foreign exchange component of Rs. 3 lakhs as indicated in the Annexure.

The details for items A, B, D and E are given in the following paragraphs.

A. Non-Recurring Expenditure on EQUIPMENT:

1. Modernisation of the 48-inch telescope	Rs. 3,00,000/- (see note a)
2. Electronic, optical and mechanical components; fabrication of new instruments; purchase of new instruments; etc.	Rs. 3,00,000/- (see note b)
3. Workshop Equipment	Rs. 1,00,000/- (see note c)

Total Rs. 7,00,000/-

(a) The 48-inch telescope as delivered by the Fecker Co. has some drawbacks. One of them pertains to the telescope drive in which the usual backlash remover is not provided. This makes the telescope drive jerky. Consequently the telescope cannot be used for wide angle sky photography with our unique Baker Corrector system. We propose to take advice from the Tata Consultants of Bombay who have constructed the Coty Radio telescope and are now helping in the 90-inch telescope project of Indian Institute of Astrophysics, Kodaikanal. We also want to obtain accessories such as instrument rotator, double slide plate-holder, guide telescope, hydraulic lift for equipment etc.

The console of the 48-inch telescope, which controls all its operations, is old fashioned and its electronic components are getting aged. We propose to replace it by a newly designed transistorised unit. E.C.I.L of Hyderabad as well as Physical Research Laboratory of Ahmedabad would be approached for advice and help in this matter.

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(b) The amount shown under this head is for buying photomultipliers, image tubes and other electronic equipment, optical components for fabrication of a rudimentary Coude spectrograph, spectrum scanner and other auxiliary instruments, photographic equipment, and for a new vehicle to replace our Ambassador car, which is 12 years old.

(c) A vertical milling machine, one additional lathe, moulding equipment, metal press are some of the items required to make the workshop fairly self-sufficient.

B. Non-Recurring Expenditure on BUILDINGS AND FURNITURE:

- 1. Additions, alterations and major repairs of buildings and facilities at Rangapur campus ... Rs. 2,00,000/- (see note d)
- 2. Extension of Astronomy Dept. building ... Rs. 1,00,000/- (see note c)
- 3. Furniture ... Rs. 1,00,000/- (see note f)

Total... Rs. 4,00,000/-

(d) Provision of adequate and protected water supply to Rangapur Observatory campus would have the top priority. We have to construct a water filtration plant and dig additional bore wells and provide them with pumps. Metallization of road, barbed wire fencing for the whole campus, rectification of dome rotation mechanism, stoppage of roof leakages, replacing the shorted electrical line, are other items included in this head.

(e) Office and laboratory space in the Astronomy Department building is inadequate for the staff and research scholars. Hence it is proposed to add a few rooms and make suitable changes in the existing accommodation.

(f) The Departmental Library is woefully short of book space. Consequently our valuable collection of costly books, journals and observatory publications is not only getting spoiled but it is also difficult to trace the volumes when needed. Hence it is necessary to provide book racks as well as airconditioning to the Astronomy Department Library. In addition furniture will be needed for the added laboratory and office space in the Astronomy Department building. The Observer's Lodge and some of the quarters at Rangapur also need furnishings.

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D. Recurring Expenditure on CONTINGENCIES:

The preset budgetted grants for Nizamiyah and Rangapur observatories are too small when compared to other observatories in India. With the increased tempo of research activity additional annual contingent grants would be needed as indicated below :

<u>I T E M</u>	<u>Amount per annum</u>
1. Maintenance and operation of telescopes.	Rs. 25,000/-
2. Workshop expenses	10,000/-
3. Maintenance of domes, buildings, water supply and electricity	10,000/-
4. Maintenance and operation of vehicles	8,000/-
5. Books and journals	20,000/-
6. Printing, binding and publications.	5,000/-
7. Computer charges	10,000/-
8. Travel and Seminars	25,000/-
9. Visiting Fellows	10,000/-
10. Other expenditure including observation allowance to staff going to Rangapur.	12,000/-
Total	Rs. 1,35,000/-

We would need foreign exchange to the tune of Rs. 5,000/- for every six months period in order to import special astronomical photographic plates which cannot be obtained either through Unesco coupons or through normal channels for importing spare parts etc.

E. Recurring Expenditure on ADDITIONAL STAFF:

Again in comparison to other observatories our staff strength is quite insufficient. At present all staff members are working to their full capacity and they are not finding time even for reducing their observed data. The Assessment Committee has recommended that we should have more scientific and technical staff. The following tabel of additional staff required by us envisages a 50 per cent increase in scientific and technical staff in the next 3 years. All these posts will be in addition to the posts sanctioned in the Fourth Plan and already taken over by the University in its normal budget.

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The requirements of teaching staff are not shown as they were not approved by the U.G.C.

<u>Designation</u>	<u>D. A. merged New grade</u>	<u>No.</u>	<u>Approx. Expenditure in the 1st year</u>
<u>Scientific Staff:</u>			
Astronomer	1500-2500	1	Rs. 20,000/-
Associate Astronomer	1200-1900	1	15,000/-
Assistant Astronomer	700-1600	1	9,000/-
Jr. Research Associate	600-1100	1	7,500/-
Scientific Assistants	530-1050	2	14,000/-
<u>Technical Staff:</u>			
Engineer - I	1200-1900	1	15,000/-
Librarian	700-1600	1	9,000/-
Technician - I	480-900	1	6,000/-
Supervisor (Civil)	430-800	1	5,500/-
Technician - II	310-560	1	4,000/-
Driver	250-430	1	3,000/-
Technician - III	250-430	2	6,000/-
Telescope Attendant	180-350	1	2,500/-
<u>Administrative Staff:</u>			
Office Superintendent	430-800	1	5,500/-
Total			Rs. 1,22,000/-

While concluding we would like to draw the attention of the University Grants Commission to the fact that the stipulated ceiling of Rs. 20 lakhs falls very much short of our original Vth Plan proposals for C.A.S. in Astronomy which envisaged an expenditure of Rs. 75 lakhs. Even the first priority items totalling Rs. 45 lakhs are not covered. Consequently we had to exclude from these proposals the most important item of equipment viz. the Aluminising Plant for the 48-inch telescope mirror, costing about Rs. 10 lakhs. As the mirror surface has already deteriorated considerably since the time of the receipt of the mirror in 1966 lowering the efficiency of the telescope by more than 50 per cent, it is requested that the U.G.C. should kindly reconsider their decision about the ceiling and provide an additional grant of Rs. 10 lakhs for this vital item as a special case.

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Foreign Exchange Requirements of C.A.S.A. during the Vth Plan Period

(for items costing more than Rs. 5,000/- each)

1. Spare parts for the 48-inch telescope such as Synchronous transmitters and receivers, motors and worm units, clutches etc. Rs. 1,00,000/-
2. Optical components for Coude' spectrograph viz. gratings, Schmidt cameras, mirror optics, slits etc. Rs. 1,00,000/-
3. Electronic equipment including Honeywell Brown Recorders, RCA 1230A Amplifiers, Fluke High Voltage Supplies, Photomultipliers, etc. Rs. 1,00,000/-

Total Rs. 3,00,000/-

V Plan Proposal
Osmania University

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Centre of Advanced Study in Astronomy

Item	Existing facilities/Provision available at present		Additional requirements proposed under CAS Scheme for V Plan	Remarks/justification for additional requirements
	Under maintenance budget (including that taken over from CAS from 1-4-74)	Under V Plan Schemes accepted by UGC		
<u>Non-Recurring</u>				
Building (Lab.)	-	-	4,00,000	4,00,000
Equipmen	1,00,000	2,00,000	5,00,000	7,00,000
Books & journals	1,00,000	1,00,000	-	1,00,000
				<u>12,00,000</u>
<u>Recurring</u>				
1. Teaching	Prof. 1 - Vacant Associate Astronomer 3 approved & 2 filled up	nil	nil	nil
2. Supporting Technical	Accounts Officer - 1 Engineer Mech. - 1 Electronic Tech. - 1 Technician - 1 Cook - 1	nil	nil	1,32,000 p.a.
3. Travel	Rs.15,000 p.a.			25,000 p.a. included under travel
4. Seminar/Symposia	Rs.15,000 p.a.			
5. Contingency	Rs.10,000 p.a.			53,000 p.a.
6. Publication	Rs. 5,000 p.a.			5,000 p.a.
7. Books & journals	Rs.15,000 p.a.			20,000 p.a.
8. Visiting Fellows	Rs.25,000 p.a.			10,000 p.a.
9. Other Expenses	Rs.10,000 p.a.			22,000 p.a.
			Total:	2,67,000 p.a.

Report of the Assessment Committee appointed by the University Grants Commission for the Centre of Advanced Study in Astronomy, Osmania University, Hyderabad.

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The University Grants Commission appointed an Assessment Committee consisting of the following members to evaluate the work of the Department of Astronomy, Osmania University since its recognition as a Centre of Advanced Study ten years ago in 1963-64. A copy of the terms of reference of the Committee is enclosed. (APP. No. 1)

- (1) Dr Vainu Bapu
Director
Indian Institute of Astrophysics . . .
Kodaikanal
- (2) Professor T K N Menon
Tata Institute of Fundamental Research
Bombay
- (3) Dr D Shankar Narayan
Additional Secretary
University Grants Commission

The Committee visited Osmania University on 1st March, 1974. The expert members of the Committee had spent the earlier couple of days in participating in a Seminar organised by this Centre and examining the facilities available at the Rangapur Observatory of this Centre. The Committee on 1st March, 1974 had discussions with the faculty members with regard to the teaching and research programmes, utilisation of the experimental facilities available at the Rangapur Observatory, Nizamiah Observatory and the Department of Astronomy on the Osmania University campus. It also had a meeting with the research scholars and finally with the Vice-Chancellor of the University.

The Department of Astronomy, Osmania University was recognised by the University Grants Commission as a Centre of Advanced Study in 1963-64 with a view to developing within the university system a major centre for training and research in the field of Astronomy. The identification of this department as a centre was mainly on the basis of the potential that existed for this purpose with the development of a major instrument facility of the 48" Reflecting Telescope, largest of its kind in South East Asia located at Rangapur Observatory about 35 miles from Hyderabad. The department had qualified staff capable of undertaking the task of developing the various training and research programmes

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and to engage itself in Observational Research as well as theoretical research activities.

The University Grants Commission had supported Osmania University to develop the Telescope facility at Rangapur Observatory since 1958 and had made available considerable grants for the acquisition of the Telescope through the Wheat Loan Funds from U.S.A. its installation, construction of Observatory Dome, workshop facilities and residential facilities for the academic and supporting technical staff. Consequent upon the recognition of this department as a Centre, further assistance was provided through the Third and Fourth Plan periods, initially to complete the installation work and then to take up training and research programmes at different levels. The department was also linked up with International assistance programme with U.S.A. and U.K. so that technical advice would be available in the development of the Observatory and the staff of the Centre could be suitably trained in the use of large Telescope, such as 48" Telescope available here and the various accessories of the Telescope, viz., Spectrograph etc. The 48" reflecting telescope at Rangapur Observatory consists of a primary parabolic mirror of 48" aperture, having a focal length of 16 feet at the Newtonian focus and 60 feet and 120 feet respectively for the Cassegrain and Coude foci. This telescope installation was completed in the end of 1968, and this was a significant step in the development of the Osmania Observatory, which had begun its work with an 8" photo-visual astrograph in 1915. The Nizamiah Observatory also has a 15" visual Grubb refractor and an authoritative collection of Astrographic catalogues.

The objectives of the Centre of Advanced Study in Astronomy have been the gradual development of the Astronomy Department, Nizamiah Observatory and the Rangapur Observatory so as to meet the needs regarding training and research activities of the entire astronomical community in the university system and to establish collaborative research activities with other groups in Astronomy in India and abroad. Towards this end, the Centre has taken up some teaching and research activities. The teaching activities have undergone considerable modifications during the past 12 years. Between 1961 and 1966, the Centre had a three years B.Sc. course with Mathematics, Physics and Astronomy combination, a two-year M.Sc. course following the B.Sc. course and a pre-M.Sc. course of one year for the benefit of those students joining M.Sc. but who did not study Astronomy at the B.Sc. level. Since several experts felt that the offering of Astronomy as an independent subject at the B.Sc. level may not be appropriate and since only Osmania University offered such a course, the admissions to the M.Sc. course would be open to students from other universities only if they completed the Pre-M.Sc. course.

The Centre therefore gave up from 1966 the B.Sc. course referred above. From 1972 onwards the Centre has introduced a three-years M.Sc. course in Astronomy and Astrophysics since it felt that a two-years M.Sc. course for students who had no background of Astronomy at the B.Sc. level was not adequate. The course in the third year also provide for a dissertation based on the observations so that the students could obtain experience in handling Telescope and making observations. The Centre would like to try out this three-years course and evaluate the employment opportunities for these persons before it would introduce any further changes. The Centre is also planning to introduce some flexibility so that students can complete to their ability and whether or not they had earlier training in Astronomy at the B.Sc. level.

The research programmes of the Centre also have three distinct time intervals with different emphasis on the nature of the work. During the period 1964-67, prior to installation of the 48" Telescope research work was on the basis of Observational Data obtained at other observatories or theoretical work done by its faculty in foreign institutions. The local effort was mainly aimed at construction and use of a photoelectric photometer for the 15-inch Grubb Telescope at Nizamiah Observatory. The research topics investigated during the period in the fields of (a) Astronomy (b) Binary Stars, (c) Photoelectric Photometry & (d) Radia Velocities.

In the areas of Theoretical Astrophysics, two main lines of research were pursued in problems related to Stellar Dynamics and Stellar Atmospheres. During the period 1967-70 when installation of the 48" Telescope demanded the major attention of most of the faculty, contributions to observational Research was minimum. During this period, some of the faculty members worked at other observatories or concentrated upon theoretical work or review type of work. During the period 1970-73 i.e. after the installation of the 48" Telescope, most of the research work carried out in on the basis of indigenous effort and equipment. Both the 15" Telescope have been used by the Faculty members and other astronomers also. The 48" Telescope, put into operation in 1970, has yielded considerable data and four research papers have also been published. Two accessories, viz., a dual channel photometer has been put to use for making observations of eclipsing binary stars. The spectrography is primarily being adjusted for use in the coming seasons.

Keeping in view the difficulties encountered by this Centre during a long stretched period of installation of the Telescope, construction of Dome etc., it is to be appreciated that during the past one year the Centre has been able to utilise the 48" Telescope to the maximum extent. The details regarding the number of days and nights during which

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observations have been carried out and the comments relating to the same are given in Appendix I.

Besides the Telescope and other ancillary facilities available at Rangapur and Nizamah Observatories, the Centre has a large collection of books and journals in Astronomy, Mathematics, Physics and allied subjects. Several catalogues, atlases and similar reference works are also available to students, teachers and research workers. The staff of the department mainly fall into two groups interested in Observational Research and Theoretical Research. The details of the staff and their interest in Astronomy are given in Appendix II.

The results of the investigations carried out by these two groups have resulted in over 60 publications during the ten-year period.

Besides the teaching and research activities and the work relating to the installation of the large Telescope, the Centre has also organised some seminars and symposia and also training programmes for young astronomers. The participants in these seminars and symposia included several Indian and foreign astronomers. The Centre during October-November, 1969 organised International School for Young Astronomers under the joint sponsorship of International Astronomical Union and UNESCO and with the financial support of the University Grants Commission. Twenty-four young astronomers including four persons from New Zealand, Japan, Taiwan & Ceylon participated in this School. The staff included besides the Indian astronomers, 5 distinguished Astronomers from U.K. & U.S.A. etc. Along with the School, the Centre also organised a seminar on Optical Astronomy with Moderate Size Telescope. About 20 papers covering the areas of (1) Optical Research Facilities and Research Plans, (2) Observational Results, (3) Suggested Research Programmes and (4) Joint Optical and Radio Astronomical Studies, were presented. The next Symposium to be held was in August, 1972 on "Spectroscopic Studies of Astrophysical Interest" in which 32 papers were read and a panel discussion was held on 'Missing Links and Programmes of Immediate Importance' in Astronomy. About 20 Indian and foreign astronomers have visited the Centre during the past four years to deliver lectures in their fields of specialisation. The department has also been able to establish collaboration with other Astronomical Laboratories such as, University of Manchester under the British Assistance Programme, University of Arizona with Dr. A.B. Mainel and the Tokyo Astronomical Observatory and finally with the Radio Astronomy Group at the Tata Institute of Fundamental Research, Bombay. The Centre has also received grants for its research programme from the U.S. Air Force Cambridge Research Laboratories and the National Science Foundation through the Optical Sciences Centre of the University of Arizona. The National Science Foundation also made available a grant

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towards installation work of the 48" Telescope and for testing of the auxiliary equipment.

The Committee would like to remind itself of the difficulties generally experienced in administering three units viz., the Department of Astronomy with its teaching and research programmes, the Nizamiah Observatory and finally the Rangapur Observatory, each of which is located at considerable distances. The Centre therefore is planning to recognise its set up to bring together the observational facilities together at Rangapur by shifting the facilities of the Nizamiah Observatory located in Hyderabad City and which have now become quite unsuitable for astronomical observations with the development of the city around it. The Committee feels that this would be a worthwhile arrangement and would bring about a better coordination of the teaching and research programmes of the Centre.

On the basis of the discussions which the Committee had, the Committee would like to make the following observations relating to the performance and accomplishment of this Centre so far and its future programmes. The Committee would like to stress first of all that the University Grants Commission continues its support to this Centre for a period of at least next five years before it could take any decision based on assessment of performance. Now that the instruments in the possession of the Centres are operational and much of early teaching problems a matter of the past, the Centre should be able to give an account of itself in the next five years which will outline both its role in Indian University education and its capability in making a significant contribution to Indian research effort in Astronomy.

The Centre should have a more dynamic approach to its programme of astronomical education and research training than it has had hitherto. It should recognise as its goal the need to train competent young minds for the astronomical profession. It should therefore function differently from the conventional pattern of providing information to all. It should restrict its numbers to sharpen up considerably on quality of intake, and aim at giving courses that create interest in the student to make contribution to the field, on his own.

As regards research facilities, the Centre has a good assortment of accessories alongwith a major instrument for research. They need financial support not only for the proper maintenance of these instruments but also for recurring expenditure on import of photographic material etc., periodically. They now have the means of doing research of quality. The choice made by the Centre to work on

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binary systems is a good one and can be done well with the aid of the facilities that exist at present. In five years time they should certainly be able to make enough progress in this area to justify further support. There is a distinct need for some more maintenance staff specially in electronics. By proper choice and organisation of courses the research staff can be given more time for research, which in the ultimate is what the Centre needs to do.

It also became apparent during the discussions that the University authorities have not been able to appreciate the fact that the work relating to a subject like Astronomy with its teaching and research programmes located in two or three places is of an entirely different nature compared to other science departments. Accordingly it would not be possible or even appropriate to equate the staff strength with actual work-load. While the work-load of a formal instructional programme could be measured it would be impossible to assess reasonably accurately the work relating to observational aspects and maintenance of the Telescope and other experimental facilities. The Committee also understood that several posts approved by the UGC have not been filled up on this account. The Committee would like to stress here that unless the full sanctioned strength including the department and the Centre's is made available, the initiative now available for this Centre's work may soon be lost. In fact, besides restoring the sanctioned strength, it would be necessary to provide for additional academic as well as supporting positions. The Committee appreciates the efforts of the University and the University Grants Commission to make it possible for some of the Observatory staff to stay at Rangapur and help in effectively facilities both by the department and other astronomers who may visit the Centre.

The Committee understands that the UGC has decided to transfer as maintenance expenditure, the existing level of recurring assistance on the centres of advanced study at the end of the ten years period, i.e. from the beginning of 1974-75. In this connection, it is most imperative for the university to see that the recurring assistance for staff and other purposes approved by the UGC would be continued to be made available to the Centre even after this amount gets emerged into the university's maintenance grants. Any effort to lowering the level of assistance would only jeopardize the activities of this Centre. The Committee also understands that the University Grants Commission would henceforth provide minimum assistance under the Centre of Advanced Study Programme mainly with a view to consolidate and strengthen the school already built up with the assistance provided during the past ten years and that the centres should

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hope to receive substantial support also from well defined research programmes. It may be possible for a few research workers to prepare such projects for consideration by the Science Research Council of the UGC. On the other hand, at this critical stage in its development, this Centre requires continued support of a permanent nature and this should become available from (a) the Fifth Plan allocation of grants to Osmania University and (b) the Centre of Advanced Study Scheme. The Committee therefore recommends that the Commission may favourably consider the proposals in this regard and continue its support to enable this Centre to take up its activities.

The Centre should establish both formal and informal collaborative arrangements with other observatories in India, such as, the one at Kodaikanal, TIFR, Bombay, Nainital and also the Astrophysics Group at Bangalore. Such a collaborative programme should lead to establishing a national net work of astronomical activity and sharing of the facilities by the Indian Astronomers as a whole. It will also help in maintenance of the sophisticated equipment available in the different observatories by pooling together the workshop and technical support within the country. In fact one of the important and urgent requirements would relate to the setting up of a aluminisation facility for the telescope mirrors. This should be developed as a common facility in one of the observatory locations. The Centre also could establish useful contacts with the Indian Space Research Organisation so that some of the students trained in this Centre could find useful employment in the various programmes of the ISRO.

The Committee hopes that with the facilities available and to be strengthened in the next few years, this Centre would develop into a major school for training and research in Astronomy in the universities in India.

The Committee is grateful to the Head of the Centre and other staff and the university Vice-Chancellor for the facilities provided for its work.

UNIVERSITY GRANTS COMMISSION

Appendix I
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General terms of reference for the Assessment Committees for evaluation of the work of the Centres of Advanced Study in Indian Universities.

1. The assessment Committee will visit the Centre concerned and hold discussions with the university authorities, the staff of the department and other research workers as may be considered essential, with regard to the various academic training and research programmes undertaken by the Centre consequent upon the Department being recognised as a Centre of Advanced Study by the UGC.
2. The Committee would look into the organisational and administrative aspects of the Centres particularly regarding identification of the Centre of Advanced Study as an integral part of the Department concerned. It would also examine the aspects relating to measure of autonomy enjoyed by the Centres in implementing various programmes undertaken by them, within the existing university framework.
3. The Committee would examine the stage of development of the area of specialisation selected initially for special support and its impact on the total development of other disciplines within the Department.
4. The Committee would also examine the question relating to the advisory committees appointed for each Centre of Advanced Study with regard to their composition, role and effectiveness in furthering the activities of the Centre, such as (a) functioning of the Centre of Advanced Study as an all India Centre with regard to recruitment of staff, students intake, and interaction with other departments in the subject concerned and possible influence in raising of standard of teaching and research in the subject concerned; (b) new courses developed either at the post-B.Sc. or post-M.Sc. level, pre-Ph.D. programmes etc., in addition to the usual undergraduate and postgraduate programmes and (c) steps taken by the centres to function as focal points of growth, development and modernisation of the academic system.
5. The Committee would also look into the future programmes of work in the next five years and the financial requirements of the centres in this regard. The continued assistance from the UGC to the Centres of Advanced Study, after 1973-74 would be subject to evaluation made by the Committee and its recommendations to be considered by the Commission. The assistance would be continued only where the Centres have earned the recognition and have made sustained and continued effort for attaining the highest standards possible in the academic training and research activities.
6. Any other aspects with regard to the functioning of the Centres as may be considered essential by the Assessment Committee.

1. The figures in column 4 clearly indicate the increased administrative efforts made in 1973-74 for the maximum utilization of the 48 inch telescope at Rangapur.
2. The figures in column 9 also indicate the reduction in major failures achieved by the sustained efforts on the part of the research and technical staff during 1973-74. There have been no major mechanical failures in December, 1973 and January, 1974. The figures in column 7 speak similarly for the minor troubles that have been surmounted.
3. In the absence of minor failures the maximum number of hours of observation on a single night could be as high as $10\frac{1}{2}$ hours. Thus we are still losing 30 per cent of the available time partly due to clouds, which is beyond our control, but partly also by power failures and low voltage of the mains supply in the early morning hours. The situation can be remedied by installing an automatic generator of about 40 KW capacity. Action is already initiated for acquiring suitable power generating equipment.
4. Fifty per cent utilization of the telescope time indicated in the last row of column 4 appears to be the maximum that can be achieved with the present strength of the research and technical staff. All of them are already working to their maximum capacity and we are compelled to close the facility on holidays for want of replacement staff. It has to be further noted that the 35-inch and 8-inch telescopes of Nizamiah Observatory have remained idle during 1973-74 for the same reason. It is thus crystal clear that the scientific and technical staff of the CAS in Astronomy should be more than doubled if we want to make the full use of all the three telescopes. Special endorsement of the Advisory Committee is necessary for the proposals regarding additional staff contained in the draft Vth Plan of the Centre.
5. We have so far restricted the research activity of the 48 inch telescope to photoelectric photometry because we wanted to pinpoint and rectify the important defects of the mechanical and electronic components of the telescope. Now that the telescope has started functioning regularly without difficulty and most of the research staff including research scholars have been trained in the use of the telescope, we plan to start spectroscopic observations with the Meinel spectrograph from March 1974 onwards.

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It will take some more time to make the telescope ready for photographic work with the Baker corrector system. There are certain design defects of the Focke telescope and a proper guiding telescope is not available. We are planning to build a double-slide plate-holder for use at the cassegrain focus. But that alone will not solve the problem of photographing even at that position. Considerable backlash is present in the Right Ascension worm-gear. We must obtain expert advice from some reputed engineering firm like the Tata Consultants of Bombay, who could also help us in rectifying certain defects of the dome as well. The Advisory Committee may make a strong recommendation that the necessary financial support for getting such expert advice should be given by the University Grants Commission.

Another major improvement that is necessary pertains to the console of the 48-inch telescope. The console has already aged considerably and its components may give way at any time. Replacements for these American components are not readily available in India. We have therefore to take early action in the design and fabrication of a new completely indigenous unit. B.A.R.C. of Bombay and E.C.I.L. of Hyderabad are ready to help us provided we have our own electronic staff to carry out the work. Proposals regarding this in the Vth Plan may be approved by the Advisory Committee.

Centre of Advanced Study in Astronomy, Osmania University

UTILISATION OF THE 48-INCH TELESCOPE (INSTALLED IN DECEMBER, 1968)

Observing season	Total No. of days	No. of nights at Rangapur	Percentage of total No. of days	No. of clear or partly clear nights of observation & percentage	Total no. of hours of observation	Hours of observation per night	No. of cloudy nights and percentage	No. of nights lost by major failures and percentage	Remarks
1968-69 (Jan-May)	153	Few	-	-	-	-	-	-	-
1969-70 (Oct-May)	243	Few	-	-	-	-	-	-	-
1970-71 (Oct-May)	243	25	10%	16 (64%)	79	5	7 (28%)	2 (8%)	Photometric Observations
1971-72 (Oct-May)	244	55	23%	31 (56%)	195	6	18 (33%)	6 (11%)	-do-
1972-73 (Oct-May)	243	Nil	0%	-	Nil	-	-	-	-do-
1973-74 (Oct-Jan)	123	63	51%	41 (65%)	313	7.5	19 (30%)	3 (5%)	-do-
Comments			1 and 4			2 and 3		2 and 3	

(see next page)

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UNIVERSITY GRANTS COMMISSION

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Meeting:

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Dated 22nd September, 1976.

Item No, 17 : To receive the minutes of the meeting of the University Grants Commission Standing Committee on New Universities and University Centres held on 2nd September 1976.

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The Standing Committee on New Universities and University Centres met on 2nd September 1976 and a copy of the proceedings of the meeting is attached as Annexure. The main recommendations of the Committee are as under :-

Item No. 1: To consider further a proposal received from the Government of Karnataka for establishment of a Second University of Agricultural Sciences as Dharwar.

The Committee agreed with the advice of the Indian Council of Agriculture and Research that there was no prima facie case for another Agricultural University in Karnataka at this stage.

...

Item No. 2: To consider a proposal from Government of Maharashtra for the establishment of two universities in Maharashtra- one in northern Maharashtra and the other in Eastern Vidarbha.

The Committee emphasised that the establishment of a new universities should by and large be on the basis of the established requirements of Postgraduate Education and Research and the requirements of the first degree stage and the increase of enrolment should be delinked and dealt with by recourse to other methods, such as bringing existing facilities to an optimum and viable level of enrolment by Correspondance Courses and non-formal education. The Committee accordingly could not recommend the proposal of the Maharashtra Government.

Item No. 3 : To consider further a proposal to declare Dayalbagh Educational Institute, Dayalbah as a deemed to be University under Section 3 of the UGC Act.

The Committee recommended that the matter may be further examined by a Committee to find ways and means in its set up in relation to Agra University whereby the innovative educational programmes proposed by the Institute could be implemented and strengthened.

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Item No. 4: To consider the proposal from the Government of Haryana to declare/Central assistance in terms of Section 12-A of the U.G.C. Act.

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The Committee decided that the proposal may be referred to a Committee.

Item No. 5 : To consider further the question of declaring Jawaharlal Nehru Technological University Hyderabad fit to receive assistance from Central sources in terms of the rules framed under Section 12-A of the U.G.C. Act.

....

The Committee noted that the rules referred to by the Jawaharlal Nehru Technological University are applicable to universities established after the commencement of the U.G.C. (Amendment) Act 1972(33 of 1972) other than Agricultural universities or a universities establishment against the advise of the Commission from imparting excluding technological or Medical education and exclusively Technological/Medical Universities, and that no rules have yet been framed under 12-A in respect of such university established against the advice of the Commission for imparting, exclusively technological or medical education. As the rules stand at present. The Committee felt that it was not possible for it to consider the proposal and desired that the proposal could be considered only after relevant rules for universities imparting exclusively technological or medical education have been framed by the Government of India, Ministry of Education ans Social Welfare under Section 12-A of the U.G.C Act.

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Item No. 6 : To consider the proposal from Government of West Bengal for the establishment of a University at Midnapur.

The Committee could not recommend at this stage the proposal of the proposal of the Government of West Bengal or the establishment of a University at Midnapur and desired that the State Government and the Calcutta University may be advised to consider the possibility of establishing an autonomous University Centre for Postgraduate Studies under the Calcutta University giving the Post Graduate Centre necessary autonomy - both academic and administrative so that a nucleus for relevant Post-Graduate studies could be started in the Midnapur region.

The Mnatter is placed before the Commission for consideration.

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Annexure to Item No. 17

University Grants Commission

Proceedings of the Meeting of the University Grants Commission
Standing Committee on New Universities and University Centres held on
September 2, 1976.

A meeting of the University Grants Commission Standing Committee
on New Universities and University Centres was held in the UGC office at 11.00
A.M. on September 2, 1976. The following were present:

1. Professor Satish Chandra
Chairman,
University Grants Commission
2. Professor B. Ramachandra Rao,
Vice Chairman,
University Grants Commission.
3. Dr. S.N. Sen,
Chairman
Association of Indian Universities
(Vice-Chancellor, Calcutta University)
Calcutta.
4. Dr. K.L. Shrimali
Vice-Chancellor
Banaras Hindu University
Varanasi.
5. Shri I.J. Patel
Vice-Chancellor
Gujarat University
Ahmedabad.
6. Dr. H. Narsimahaiah
Vice-Chancellor
Bangalore University
Bangalore.
7. Professor M.V. Mathur
Director,
National Staff College,
New Delhi.
8. Shri K.N. Channa,
Secretary,
Government of India,
Ministry of Education and Social Welfare,
New Delhi.

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9. Professor R.P. Bambah
Director
Centre of Advanced Study in Mathematics
Panjab University
Chandigarh.
10. Dr. O.P. Gautam
Deputy Director General
Indian Council of Agricultural Research
New Delhi.
11. Shri R.K. Chhabra
Secretary,
University Grants Commission.
12. Dr. D. Shankar Narayan
Additional Secretary
University Grants Commission.
13. Shri Y.D. Sharma
Deputy Secretary,
University Grants Commission.

--- Dr. Ajit Mazoomdar and Dr (Miss) A.J. Dastur, and Dr. P.P. Goyal, D.G.H.S. New Delhi could not attend the meeting.

Item No. 1 : To consider further a proposal received from the Government of Karnataka for establishment of second University of Agricultural Sciences at Dharwar.

The Committee noted the following views of the Indian Council of Agriculture and Research in regard to the proposal of the Government of Karnataka for the establishment of a second University of Agricultural Sciences at Dharwar:

"Our examination of the material shows that there is not sufficient justification for fulfilling the conditions notified by the Government of India under Section 12(A) of the UGC Act, 1956 applicable to new Agricultural Universities. The I.C.A.R. also, in principle, is not in favour of proliferation of more Agricultural Universities within a State. The existing Agricultural University has given attention to regional problems by locating Regional Research-cum-Extension Centres and has also developed academic programmes both undergraduate and postgraduate at the Dharwar Campus and the Agricultural Engineering-programme at the Raichur Campus. The Visiting team of I.C.A.R. for the fifth Plan has provided assistance to the development of the Dharwar Campus of the University".

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Committee felt that there was no prima facie case for another Agricultural university in Karnataka at this stage.

Item No. 2: To consider a proposal from Government of Maharashtra for the establishment of two Universities in Maharashtra, one in Northern Maharashtra and the other in Eastern Vidarbha.

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From the information supplied by the Government of Maharashtra in regard to the establishment of two more Universities in the State of Maharashtra, one in Northern Maharashtra and the other in Eastern Vidarbha, the Committee noted that the case for the two new universities has been made out on the basis of increase in enrolment over the years and in the number of Colleges affiliated to existing universities and that the Government of Maharashtra agrees to provide for an amount of Rs. 50 lakhs only for the campus development as well as for the academic activities in the first 5 years for each of these two universities, as against the amount of Rs. 2 crores capital expenditure required to be provided by the State Government for each university (as per rules framed under Section 12-A of UGC Act.) within the plan period.

The Committee emphasised that the establishment of a new university should, by and large, be on the basis of the established requirements of postgraduate education and research and the requirements of the first degree stage and the increase of enrolment should be delinked and dealt with by recourse to another methods, such as bringing existing facilities to an optimum and viable level of enrolment, by correspondence courses and non-formal education. The Committee accordingly could not recommend the proposal of the Maharashtra Government.

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Item No. 3 : To consider further a proposal to declare Dayalbagh Educational Institute, Dayalbagh as a deemed to university under Section of the UGC Act.

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The Committee noted the information supplied by the Dayalbagh Educational Institute, Dayalbagh in connection with its proposal for consideration as an "Institute as a deemed to be University" under Section 3 of the UGC Act and noted that the Agra University had not found it possible to grant to this Institution the status of autonomous college to any of the colleges run by this Institute. It was recommended that the matter may be examined further by a committee to find ways and means in its setup, in relation to Agra University whereby the innovative educational programmes proposed by the Institute could be implemented and strengthened.

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Item No. 4: To consider the proposal from the Government of Haryana to declare Rohtak University fit to receive Central Assistance in terms of Section 12-A of the UGC Act,

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The Committee desired that the proposal of the Government of Haryana for declaring Rohtak University fit to receive Central Assistance in terms of Section 12-A of the UGC Act may be referred to a Committee.

Item No. 5: To consider further the question of declaring Jawaharlal Nehru Technological University, Hyderabad fit to receive assistance from Central sources in terms of rules framed under Section 12-A of the UGC Act.

The Committee considered the justification given by the Vice-Chancellor, Jawaharlal Nehru Technological University, Hyderabad for declaring it fit under the fitness of the universities for grants rules 1974 framed by the Government of India in terms of Section 12-A of the UGC Act. It was noted that the rules referred to by the university are applicable to universities established after the commencement of the UGC (Amendment) Act 1972 (33 of 1972) other than agricultural and exclusively Technological/Medical Universities, and that no rules have yet been framed under 12(a) in respect of such universities established, against the advice of the Commission for imparting, exclusively technological or medical education. As the rules stand at present, the Committee felt that it was not possible for it to consider the proposal, and desired that the proposal could be considered only after relevant rules for universities imparting exclusively technological or medical education have been framed under Section 12-A of the UGC Act.

...

Item No.6: To consider the proposal from Government of West Bengal for the establishment of a University at Midnapur.

...

The Committee could not recommend at this stage to the proposal of the Government of West Bengal for establishment of a University at Midnapur and desired that the State Government and the Calcutta University may be advised to consider the possibility of establishing an autonomous University Centre for Postgraduate Studies, under the Calcutta University, giving the Postgraduate centre necessary autonomy-both academic and administrative, so that a nucleus for relevant Postgraduate studies could be started in the Midnapur region.

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UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22.9.1976.

Item No. : 18 To receive the proceedings of the UGC Committee on providing Ancillary Facilities in Universities held on September 2, 1976.

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The U.G.C. at its meeting held on June 3-4, 1976 generally reviewed the progress made in respect of Fifth Plan policies and programmes during the first two years of the plan and observed inter-alia as follows (Item No.43):

"The Commission had initiated a major programme of faculty improvement during the fifth plan period to provide for teacher fellowships, national associate-ships, research associates and similar other opportunities which encourage mobility of academic personnel and opportunities for working in other universities and institutions. The success of these programmes would to a large extent, depend upon making available to the institutions concerned necessary ancillary facilities such as teachers hostels, guest houses as well as staff residences. Such ancillary facilities developed in the selected universities would also be available for the academic group meetings such as seminars, symposia, refresher courses, workshops, which are organised by the universities with the support from the University Grants Commission. The Commission desired that a specific proposal giving the necessary details for this programme may be worked out and placed before the Commission at an early date".

A Committee was accordingly appointed to advise the Commission for selecting places where ancillary facilities may be provided. The meeting of the Committee was held on 2nd September, 1976 in the UGC Office. A copy of the proceedings of the Committee is enclosed (Annexure). The main recommendations/suggestions made by the Committee are detailed below:-

I. Residential Accommodation.

(a) The Commission may provide financial assistance on usual sharing basis for the construction of additional

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residential accommodation for about half the number of additional posts (Viz. 1800 Professors and Readers and 900 Lecturers) approved during the Fifth Plan period. For providing residential accommodation for about 900 senior academics (Type-I) and 450 lecturers (Type-II), on 50% basis, funds to the tune of Rs. Six Crores may have to be provided.

(b) The universities be advised that a separate fund may be created from the rental income of houses constructed with assistance from UGC after meeting the expenditure on maintainance which may be utilised for further development of housing facilities.

II. Teachers Homes.

(i) For faculty improvement programmes, visiting faculty suites may be constructed at the universities. These suites may have two or three types of accommodation in them: (i) 2 rooms suites with bath and kitchen, and (ii) i.e. one room guest suites, for occupancy by one person with half the number of rooms having attached bath and the other half number of rooms being provided with a wash basin but the other facilities being common and situated at convenient places. Both the types of accommodation may be constructed as a composite common unit and with adequate facilities for conferences, seminars etc. such faculty suites should be exclusively meant for visiting faculty and other participants under faculty improvement programmes etc. and no portion of it may be allotted for permanent occupancy or for other non-academic purposes. Each building may provide between 32 to 40 units. The details about the accommodation, academic facilities, unit cost of construction etc. may be worked with the help of an Expert Committee. An allocation of about Rs. Four Crores may be required for the construction of such suites at various universities. The assistance for the purpose may be provided on cent per cent basis, but the universities should be responsible for their proper maintainance/repairs etc.

Kitchen & Dining room

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(ii) Keeping in view the regional distribution and the stage/development, as obtaining in the various universities, the committee recommended for providing assistance in two categories. In category-I, assistance may provided for creating new faculty/ seminar complex and

/suites

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in category-II, assistance may be used for augmenting the existing facilities. The facilities so created should be available for use by the adjoining universities in the region/state for similar academic meetings. The Committee recommended the following universities for such facilities:-

S.No.	State.	Name of the University to which assistance may be provided.	
		Category-I.	Category-II.
1.	Maharashtra.	1. Bombay.	1. Poona.
2.	Gujarat.	2. Baroda.	2. Gujarat (Ahmedabad)
3.	Rajasthan.	3. Udaipur (ICAR may also support).	3. Rajasthan (Jaipur)
4.	Delhi	4. Jawaharlal Nehru, New Delhi.	-
5.	Chandigarh	5. Delhi.	4. Panjab (Chandigarh)
6.	Jammu & Kashmir.	6. Kashmir (Srinagar)	-
7.	Himachal Pradesh.	-	5. Himachal Pradesh (Simla)
8.	Uttar Pradesh	7. Aligarh.	6. Banaras.
		8. Lucknow.	
		9. Allahabad.	
9.	Bihar.	10. Patna.	-
		11. Ranchi.	
10.	West Bengal.	12. Calcutta.	7. Visva-Bharati (Shantiniketan)
		13. Jadavpur.	
11.	Assam.	14. Shillong.	-
		15. Gauhati.	-
12.	Orissa.	16. Utkal (Bhubaneswar)	-
13.	Madhya Pradesh.	-	8. Jabalpur
			9. Vikram (Ujjain)/ Indore.
14.	Andhra Pradesh.	17. CIEFL (Hyderabad)	10. Osmania (Hyderabad)
		18. Andhra (Waltair)	
15.	Tamil Nadu.	19. Madras.	11. Madurai.
16.	Karnataka.	20. Bangalore.	12. Mysore.
17.	Kerala.	21. Cochin.	13. Kerala (Trivandrum)

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(iii) The basis of charging rent for these accommodation for different purposes may be determined in consultation with U.G.C.

(iv) While the UGC may provide cent per cent assistance for creating these facilities, the responsibility of maintenance of these may be that of the universities where these facilities have been created.

D.S. (CP)

UNIVERSITY GRANTS COMMISSION

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Draft proceedings of the meeting of the UGC Committee on providing Ancillary Facilities in Universities held on September 2, 1976.

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A meeting of the committee appointed to advise the UGC on selecting places for providing ancillary facilities in the universities was held at 4.30 p.m. on September 2, 1976 in the UGC Office, New Delhi. The following were present:-

1. Professor Satish Chandra
Chairman, UGC.
2. Professor B.R. Rao
Vice-Chairman, UGC.
3. Professor Maqbool Ahmed
Member-UGC
Aligarh Muslim University.
4. Professor R.P. Bambah
Member-UGC
Panjab University.
5. Dr.(Miss) A.J. Dastur
Member-UGC.
Bombay University.
6. Shri R.K. Chhabra
Secretary, U.G.C.
7. Dr. D. Shankar Narayan
Additional Secretary, UGC.
8. Shri Y.D. Sharma
Deputy Secretary, U.G.C.

Professor R.S. Sharma, Department of History, Delhi University could not attend the meeting.

2. Professor Satish Chandra apprised the committee that on the basis of the Fifth Plan Visiting Committees which assessed the development proposals of the universities, the Commission would have assisted the universities to create additionally about 1800 senior teaching positions of professors and readers and 900 posts of lecturers in the universities

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and university centres for postgraduate studies during the Vth plan period. The filling up of these additional position by adequately qualified and experienced academics, on an all-India basis, depends largely on availability of reasonable accommodation facilities in these universities. In addition the Commission has undertaken the implementation of major programmes for faculty improvement and academic mobility, including the following:-

1. Visiting Fellowships/appointments
2. National Fellowships/Lecturerships
3. National Associateships
4. Research Associateships
5. Teacher Fellowships
6. Faculty Improvement Programmes other than Teacher Fellowships
7. COSIP/COHSIP activities
8. Summer Institutes, refresher courses, seminars, conferences etc.
9. . . . Unesco sponsored long term/short term courses of training for participants from developing . . . countries.
10. Visitors under Cultural Exchange Programmes, YSES, UNDP, IBUC and other collaboration programme.
11. Research fellowships in CAS/DSA etc.

All these programmes encourage academic mobility and require academics to stay and work for specified periods at the universities etc. The existing facilities of teachers hostels, Staff quarters, guest houses and students hostels are inadequate to provide reasonable accommodation etc. to the visiting scholars for building up a corporate academic life in the country. It is, therefore, necessary to identify a few locations and create in such places appropriate residential facilities and to augment the existing ones.

On the basis of the discussions held, the committee made the following suggestions and recommendations:-

I. Residential Accommodations.

(a) The Commission may provide financial assistance on usual sharing basis for the construction of additional residential accommodation for about half the number of additional posts approved during the fifth plan period. For providing residential accommodation for about 900 senior academics (Type-I) and 450 lecturers (Type-II) on 50% basis, funds to the tune of about Rs. Six crores may have to be provided.

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(b) The universities be advised that a separate fund may be created from the rental income of houses constructed with assistance from UGC, after meeting the expenditure on maintenance, which may be utilised for further development of Housing facilities.

II. Teachers Homes:

(i) For faculty improvement programmes, visiting faculty suites homes may be constructed at the universities. These suites may have two or three types of accommodation in them: (i) 2 rooms suites with bath and kitchen, and (ii) i.e. one room guest suites for occupancy by one person with half the number of rooms having attached bath and the other half two of rooms be provided with a wash basin, but the other facilities being common and situated at convenient places. Both the types of accommodation may be constructed as a composite common unit, and with adequate facilities for conferences, seminars etc. Such Faculty suites should be exclusively meant for visiting faculty and other participants under faculty improvement programmes etc. and no portion of it may be allotted for permanent occupancy or for other non-academic purposes. Each University may provide between 32 to 40 units. The details about the accommodation, academic facilities, unit cost of construction etc. may be worked with the help of an expert committee. An allocation of Rs. about Four crores may be required for the construction of such suites at various universities. The assistance for the purpose may be provided on cent per cent basis, but the universities should be responsible for their proper maintenance/repairs etc.

{ Kitchen & Dining room,

(ii) Keeping in view the regional distribution and the stage of development, as obtaining in the various universities, the committee recommended for providing assistance in two categories. In category I, assistance may be provided for creating new/complex and in category-II, assistance may be used for augmenting the existing facilities. The facilities so created should be available for use by the adjoining universities in the region/state for similar academic meetings.

{ faculty suites

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The following recommendation was made:

S.No.	State.	Name of the University to which assistance may be provided.	
		Category-I.	Category-II.
1.	Maharashtra.	1. Bombay.	1. Poona.
2.	Gujarat.	2. Baroda.	2. Gujarat (Ahmedabad).
3.	Rajasthan.	3. Udaipur (ICAR may also support).	3. Rajasthan (Jaipur).
4.	Delhi.	4. Delhi.	-
		5. Jawaharlal Nehru (New Delhi).	
5.	Chandigarh	-	4. Panjab (Chandigarh).
6.	Jammu and Kashmir.	6. Kashmir (Srinagar)	-
7.	Himachal Pradesh.	-	5. Himachal Pradesh (Simla).
8.	Uttar Pradesh.	7. Aligarh.	6. Banaras.
		8. Lucknow.	
		9. Allahabad.	
9.	Bihar.	10. Patna.	-
		11. Ranchi.	
10.	West Bengal.	12. Calcutta.	7. Visva-Bharati (Shantiniketan)
		13. Jadavpur.	
11.	Assam.	14. Shillong.	-
		15. Gauhati.	
12.	Orissa.	16. Utkal. (Bhubaneswar)	-
13.	Madhya Pradesh.	-	8. Jabalpur
			9. Vikram (Ujjain) Indore.
14.	Andhra Pradesh.	17. CIEFL (Hyderabad)	10. Osmania (Hyderabad)
		18. Andhra (Waltair)	
15.	Tamil Nadu.	19. Madras.	11. Madurai.
16.	Karnataka.	20. Bangalore.	12. Mysore.
17.	Kerala.	21. Cochin.	13. Kerala (Trivandrum)

(iii) The basis of charging rent for these accommodation for different purposes may be determined in consultation with University Grants Commission.

(iv) While the UGC may provide cent per cent assistance for creating these facilities, the responsibility of maintenance of these may be that of the universities where these facilities have been created.

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*Yadav.

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UNIVERSITY GRANTS COMMISSION

Meeting:

Dated : 22nd September, 1976.

Item No. 19: To consider the proposal of the Nagpur University for the construction of hostel

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During the IV Plan Period the University Grants Commission agreed to assist the Nagpur University for the construction of Men Students' hostel for 100 students on 50:50 sharing basis outside the IVth Plan allocation. The plans and estimates amounting to Rs.10,22,000/- were accepted in June, 1973. In December, 1974, the University was informed that the approval of the Commission may be taken as lapsed as the University could not implement the project within a year of its approval. The University subsequently sent the revised estimates indicating that due to abnormal increase in the cost of building materials like steel, cement etc. the estimated cost had increased from Rs.10,22,000/- to Rs. 13,81,838/-. The University was informed to defer the construction of the building in view of the ban on the construction of the non-functional buildings.

The University has now requested that the Commission may approve the proposal at an estimated cost of Rs. 13,81,839/-, as the strength of the university teaching department and the constituent colleges has increased from 3336 in the year 1971 to 3889 in the year 1975-76 while existing hostel facilities for men and women students hostel remain the same i.e. 582 during all these years.

The Fifth Plan Visiting Committee had also observed that the construction work of the student hostel could not be undertaken by the University during IVth Plan. The Committee recommended a provision of Rs. 6.00 lakhs i.e. (Rs. 3.00 lakh each in priority I and priority II) as the University Grants Commission share towards students hostel. For the present the Commission has approved a provision of Rs. 3.00 lakh recommended by the Committee under priority II. In case the estimated cost of Rs. 13,81,839/- is accepted the Commission's share @ 50% will be Rs. 6,90,919/- resulting in a shortfall of Rs. 3,90,919/-. The following is therefore placed for the consideration of the Commission:-

- i) Whether the revised proposal of the Nagpur University for the construction Men's Hostel at an estimated cost of Rs.13,81,838/- may be accepted.
- ii) Whether the amount of Rs. 3.00 lakhs (U.G.C. Share) recommended by the fifth plan Visiting Committee under priority II may be approved.

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iii) The question, in general, of approving the grants recommended by the V Plan Visiting Committees for Students Hostels under Priority II in case of other universities may also be considered.

The financial implications of the recommendations of the Vth Plan Visiting Committee are as under :-

<u>Item/Priority:</u>	<u>U.G.C. Share(Rs. in Lakhs)</u>			
	<u>I</u>	<u>II</u>	<u>III</u>	<u>Total</u>
Spill-over	4.54	-	-	4.54
Staff	13.75	6.57	6.20	26.52
Equipment	18.70	11.85	11.85	42.40
Books	20.00	5.00	5.00	30.00
Research Fellowships	2.00	2.00	1.00	5.00
Visiting Professorships	0.50	0.25	0.25	1.00
Building	17.00	8.30	1.30	26.60
	<u>76.49</u>	<u>33.97</u>	<u>25.60</u>	<u>136.06</u>

Uncovered balance Rs.13.94 lakhs within Rs.150.00 lakhs.

The proposals of the Nagpur University amounting to only Rs.83.06 (Rs.76.49 recommended under first priority + Rs. 6.57 for staff recommended under priority II) have been accepted by the Commission for the present as against the usual 2/3 of the allocation of 150 lakhs i.e. 100 lakhs.

The matter is placed before the Commission for consideration.

E.O.(D4-a)/DS(D.4)

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

Meeting :

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Dated : 22nd September, 1976.

Item No. 20: To consider the question of participation in seminars symposia by teacher fellows selected under Faculty Improvement Programme and Sanction of leave to them.

Teacher fellowships instituted by the Commission are specifically meant to provide opportunities for teachers to work towards either an M.Phil or M.Litt. or a Ph.D. degree. They are of two types- short term of one years duration (for teachers upto 40 years) and long term fellowships for a duration not exceeding three years (for teachers upto 50 years). A question has now arisen about the leave to be sanctioned to teacher fellows selected under Faculty Improvement Programmes and about their participation in seminars/symposia in the fields related to their research topics Projects. Professor A.B.Lal, Head of the Department of Chemistry, Bhagalpur University, has made some suggestions in this regard as indicated in the Annexure-I.

In the guide lines for award of teacher fellowships under Faculty Improvement programmes, do not provide for leave to teacher fellows or as to whether they are required to participate in seminar or symposia. It may be stated that under the rules for award of Junior Research Fellowships research fellows are required to under take upto four hours a week teaching assignment e.g. assisting in tutorials evaluation of test papers, laboratory demonstration work etc. which would help them in future as teachers. Research fellows are also entitled to leave for a maximum period of 30 days in a year in addition to general holidays. The women awardees are eligible for maternity leave at full rates for a period not exceeding three months once during the tenure of their award. The fellows in special cases may be allowed leave without fellowship not exceeding three months during the tenure of the award on the recommendations of the Supervisor and the Institution concerned. The research fellows are also permitted to attend seminars, symposia, Conferences etc. related to their areas of research. Rules pertaining to Junior Research Fellowships are given in Annexure-II. The Commission may consider whether the rules prescribed for the Junior Research Follows so far as sanction of leave, teaching assignment, participation in seminars, symposia etc. are concerned, will also be applicable to teacher fellows selected under the Faculty improvement programmes.

The matter is placed before the Commission for consideration.

A.S.(R.F)/J.S.(II)

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Annexure I to item No.20

Copy of letter No. F.13/542 dated the 7th August, 1976
from Shri A.B.Lal, University Professor of Chemistry,
Department of Chemistry, Bhagalpur University, Bhagalpur
addressed to Shri Chhabra, Secretary, University Grants Commission,
New Delhi.

Subject :- Teacher Fellows- Proposals for leave rules and seminars.

Several Teacher Fellows have joined this department
under the UGC Faculty improvement programme. In connection
with the work and leave rules of these teacher fellowship
holders, the following suggestions are made:-

1. Leave rules applicable to senior and junior Research
Fellows should apply to Teacher Fellows.
2. The Teacher Fellows shall have to take active part and
contribute to the departmental seminars on recent advances in
fields related to their research project. It should be
obligatory for Teacher Fellows to attend and contribute to
atleast 12 seminars during their fellowship. A programme
has been chalked out by me which is enclosed. X

These suggestions may be put up before the Commission
for approval. An early reply will be highly useful.

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X Not Enclosed.

UNIVERSITY GRANTS COMMISSION ANNEXIURE II

APPLICATION FORM FOR JUNIOR RESEARCH FELLOWSHIPS IN SCIENCES/HUMANITIES INCLUDING SOCIAL SCIENCES

(The form must be filled carefully. Incomplete form is liable to be rejected)

1. Name (IN BLOCK LETTERS with surname underlined)
State Dr./Shri/Smt./Kumari :
2. Date of birth :
3. Nationality :
4. Father/Husband's name (Strike off one not relevant) :
5. (a) Present Address :
(b) Permanent Address :
6. If belonging to Scheduled Caste/Tribe, state name of the Caste/Tribe :
7. Particulars of Educational qualifications—starting with Matriculation onward, (Please attach attested copies of mark sheets, certificates, diplomas etc. and give a reference in the last column) :

Examination passed and the year of passing	School/College/University	Subject Offered	Division/Grade	Percentage of marks/Cumulative grade point		Encl. No.

8. (i) Please indicate whether you propose to work in a Postgraduate College having adequate facilities for such research work.
(ii) Name of the Department, College/University where you propose to do research :
(a) Department :
(b) College/University :
9. Give particulars of the Research problem :
(a) Subject :
(b) Specialisation within the subject :
(c) Title of Research Problem :
(A brief abstract not exceeding 500 words on the proposed research work, methods of approach, etc. must be sent along with the application, without which the application will be treated as incomplete).
(d) Name and designation of the Supervisor with whom the research is proposed to be undertaken :

10. Please State :

- (a) Whether you are already registered or propose to register for M. Phil. or for research work leading to award of a doctorate degree :
- (b) Date of Registration :
- (c) Name of the University :
- (d) Topic of Research, if any :
- (e) Name and Designation of the Supervisor, if any :
- (f) Details of papers published (if any) with a copy each of the reprints. Details of publications may be given on a separate sheet of paper.

11. Present Occupation (if employed, indicate the nature of employment and emoluments drawn per month) :

12. Do you suffer from any physical disability ? If so, please give details :

13. Any other information relevant to the research work, which you may like to give in support of your application :

14. List of enclosures :

1.

2.

3.

4.

5.

Declaration

I hereby declare :

That I have read the rules regarding the award of Research Fellowship of the University Grants Commission and in the event of a Fellowship being awarded, I undertake to engage myself whole time for work on the subject under the direction of the supervisor during the tenure of fellowship. I further declare that to the best of my knowledge and belief, the particulars given in the form are correct.

Place :

(Signature of the Candidate)

Date :

For use by University/College

It is certified that necessary facilities will be provided for the work of _____
Recommendation of the forwarding authority ; (Views of the Supervisor/Head of the Department regarding the candidate's suitability for the award should be obtained separately and enclosed with the application).

Place :

Signature

Date

Registrar/Principal

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002

Rules for award of Junior Research Fellowships in Sciences and Humanities (including Social Sciences)

1. Purpose of the Award

To provide an opportunity to research students and teachers to undertake advanced study and research in Sciences and Humanities (including Social Sciences).

2. Value

The value of Junior Research Fellowship is Rs. 400/- p.m. for the first two years. At the end of two years, the work done by the Fellow will be assessed and if his work is judged to have been good, he will be awarded a fellowship of Rs. 500/- a month for another two years. The Junior Research Fellowships carry a contingency grant of Rs. 1500/- per annum for approved contingent expenditure.

The fellowship and contingency grants are exempt from income tax.

3. Eligibility

Junior Fellowships are open to persons preferably below the age of 30, who have obtained a master's degree of a recognised university in the first or second division (with at least 55% marks) or at least B+ in the grade system.

4. Conditions of Award

(a) The fellowships are tenable at any university/college or institution approved under the University Grants Commission Act.

(b) The fellow will do whole time research work under the approved guide in a subject selected by him and approved by the University.

(c) The fellow shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipend etc. from any other source during the tenure of the award. The Junior Research Fellows are required to undertake up to four hours a week teaching assignment, e.g. assisting in tutorials, evaluation of test papers, laboratory demonstration work etc. which would help them in future as teachers.

(d) The fellow shall present, through his Supervisor, half yearly report on the progress of his work. He shall before the expiry of the fellowship, present a comprehensive report and supply to the Commission free of cost a copy of published work if any and abstract in about 500 words of the research work done during the tenure, of fellowship.

(e) If a fellow wishes to leave the fellowship before the end of the tenure, it should be done with the prior approval of the Commission. He should also obtain prior permission of the Commission for appearing at any examination conducted by any university or public body.

(f) Junior research fellowship will be tenable for a period of four years, extendable by six months in special cases. After two years of the tenure, the performance of all Junior Research fellows (including those under the Junior Research Fellowship scheme being implemented by the universities) may be assessed by the University Grants Commission. On assessment if it is found that the fellow lacks research potential the fellowship may be terminated. In case of a research fellow who has displayed research ability but not achieved significant progress he may be given an extension for a period of one year and at the end of the three-year period his research work would be subjected to a further assessment; and only if report is found to be satisfactory, he would be given further extension of one year. The fellowship could be withdrawn if the work is considered unsatisfactory.

(g) The Commission may terminate a research fellowship at any time if not satisfied with the progress or conduct of the fellow.

5. Leave

(a) Leave for a maximum period of thirty days in a year in addition to general holidays may be taken by a fellow with the approval of the Supervisor. The general holidays, however, do not include the vacation period e.g. Summer, Winter & Pooja Vacations. The women awardees would be eligible for maternity leave at full rates for a period, not exceeding three months, once during the tenure of their award.

(b) The fellow may, in special cases, be allowed by the commission leave without fellowship upto one academic year during the entire tenure of the fellowship for purposes of accepting teaching assignment on a temporary basis provided the post accepted by them is in same department, or in an institution located in the city. In other cases not exceeding three months during the tenure of award on the recommendations of the supervisor and the institution concerned. The period of leave without fellowship will count towards the tenure of fellowship.

6. Selection

The selection of research fellows will be made on merit and on the recommendations of a Selection Committee appointed by the Commission for this purpose. The selection will be made once a year before the end of September each year. The decision of the Commission shall be final.

The results of the selection will be announced through a press note in leading newspapers of the country and only selected candidates will be informed individually.

7. Reservation

Ten per cent of the fellowships are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes provided they fulfil the minimum qualification laid down for the award. In case qualified candidates are not available, reserved fellowships may be treated as unreserved.

8. Payment

Payment of the fellowship amount will be made to the institution concerned for the period ending March each financial year for disbursement to the fellow in the first week of every month.

8. Application for Award

Application for award in the prescribed form duly completed by the candidates alongwith necessary enclosures should reach the Secretary, University Grants Commission, Bahadur Shah Zafar Marg, New Delhi-110002, through the university or institution where the candidate desires to work.

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UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22nd September, 1976.

Item No. 21: To consider the recommendation of the Committee for rationalizing the University Grants Commission scheme of Research Associateships and other research assignments in Universities.

With a view to providing an opportunity to research students and teachers who have shown extraordinary talent for research and competence to take up research work independently in Science, Humanities including Social Sciences and in Engineering and Technology, the Commission at its meeting held on 7th May, 1974 agreed, on the recommendations of the Standing Committee on Fellowships Programme, to create Research Associateships not exceeding 50 every year with emoluments (consolidated) between Rs.700/- and Rs. 1100/- per month plus a contingent grant of Rs.2,000/- per annum, the tenure of Research Associateship, being a maximum period of five years only. It was, further, decided that the selection of the Associates will be made after interviewing candidates by the subject panels. During the year 1975, 22 Research Associates were selected. A copy each of the rules and application form for Research Associateship are attached in Annexure I & II.

2. At the meeting of the Committee held on 26th April, 1976 for recommending suitable candidates who could be called for interview for the award of Research Associateships during 1976, it was considered desirable to rationalise the concept of Research Associateships.

3. It may be mentioned that the Commission had appointed a Committee to look into the question of revision of pay scales of academic posts other than professors, readers and lecturers in Central Universities. The recommendations of the Committee were considered by the Commission at its meeting held on 27/28th October, 1975 when the Commission inter-alia resolved:-

"It was noted that a variety of posts with different designations had been created and it was therefore essential to bring about some rationalization in this regard. It was agreed that wherever the posts of research assistant, research and reference assistants, research officers (senior & junior), senior research fellows and investigators fall vacant, these vacancies should not be filled up till a decision has been taken on the rationalization of their designation and the tenure of appointment. The Commission also felt that it may not be necessary to create such categories of posts as that of research officers in Central Universities."

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4. The Committee met again on July 13, 1976. A copy of the report of the Committee is attached as Annexure-III. The major recommendations made by the Committee are given below :-

1. The following categories of posts of Researchers may exist in the Central Universities.

1. Research Fellows (Junior/Senior)
2. Research Associates.

The Research Fellowships (Junior/Senior) would be to provide an opportunity to students and teachers to undertake advanced study and research. The value and the terms of award for such fellowships may be the same as those suggested by the University Grants Commission for fellowships instituted by it.

2. The Research Associateships will provide an opportunity to research students and teachers who have shown extraordinary talent for research and competence to take up research work independently; In this connection it was noted that posts of Research Associates exist in the Central Universities particularly in departments recognised as centres of advanced study or departments under the special assistance programme of the University Grants Commission. The Committee also noted that the scale of Research Associates has been revised from Rs.400-950 to Rs.700-1300 w.e.f. 1.1.73. No permanent appointments are to be made against the post of Research Associate and all the appointments are to be made initially for a period of 3 years which may be extendable for a further period upto 4 years. The Committee was of the view that the value of Research Associateship may be either in the scale of Rs.700-1300 with allowances or they may be given fixed emoluments in the scale of Rs.700-1300 with no allowances. In the former category existing teachers could be selected on the tenure basis of 3-5 years. In the latter case, the work of the Research Associates be assessed after 3 years of the award and on the satisfactory performance of the incumbent, an increment of Rs. 150 per month may be given.

It was noted that the value of the Research Associateship as instituted by the University Grants Commission by direct award is between Rs.700-1100 (consolidated to be fixed individually) p.m. The Committee felt that the terms of these Research Associateships instituted by the Commission may be reviewed keeping in view the above recommendations.

p.t.o.

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- iii) The Committee was also of the view that posts of Research Assistants which exist in some Central Universities at present in different scales and with different qualifications were created by the universities with a view to provide assistance to the senior faculty members in doing their research work. The Committee was not happy with this situation and was of the view that posts of Research Assistants may not exist any more in the Central Universities. These posts as and when they fall vacant may be suitably converted into the posts of Research Fellows or research associates.
- iv) There is a need to appoint senior supporting technical staff in the Central Universities in view of the sophisticated instrumentation facilities available in the Central Universities for the purpose of advanced research. It was agreed that posts with suitable designations such as Scientists A/B/C as in the C.S.I.R. or as in the I.C.A.R. may be created in the Central Universities in the pay scales as indicated below :-

Scientists- A Rs. 700-1300
Scientists- B Rs. 1100-1600
Scientists- C Rs. 1500-2000

The matter is placed before the Commission for consideration.

DS-D(5) /JS-II

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UNIVERSITY GRANTS COMMISSION

RULES FOR AWARD OF RESEARCH ASSOCIATESHIP IN SCIENCE, HUMANITIES (INCLUDING SOCIAL SCIENCES) AND ENGG. & TECHNOLOGY

1. PURPOSE OF THE AWARD.

To provide an opportunity to research students and teachers who have shown extra-ordinary talent for research and competence to take up research work independently in Sciences, Humanities including Social Sciences and Engineering & Technology.

2. VALUE

The value of Research Associateship is between Rs.700-1100/- (consolidated to be fixed individually) per month. The Research Associateship carries a contingency grant of Rs.2,000/- p.a. for approved contingent expenditure. The associateship and contingency grants are exempt from Income Tax.

3. ELIGIBILITY

Research Associateships are intended for research workers and teachers preferably below the age of 45 years who have obtained a doctorate degree have published research work to their credit and have already shown evidence of independent research work.

4. CONDITIONS OF AWARD.

a. The Associateships are tenable at any University/College or/Institution approved under the University Grants Commission Act.

b. The Associate will do whole time research work in a subject selected by him and approved by the University.

c. The Associate shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipend etc. from any other source during the tenure of the award.

Research Associates are expected to move to a college or a University so that their services could be utilised for strengthening the teaching programme and would devote not less than eight hours a week for this purpose.

d. The Associate shall present, through the Senior Faculty member with whom he is working and the Head of the department/University half yearly report on the progress of his work. He shall before the expiry of the associateship, present a comprehensive report and supply to the Commission free of cost a copy of published work if any, and an abstract in about 500 words of the research work done during the tenure of associateship.

e. If an associate wishes to leave the Associateship before the end of the tenure, it should be done with the prior approval of the Commission. He should also obtain prior permission of the Commission for appearing at any examination conducted by any University or public body.

f. The Research Associateship will be tenable for maximum period of five years.

g. The Commission may terminate the Associateship at any time if not satisfied with the progress or conduct of the Associate.

5. LEAVE:-

a. Leave for a maximum period of thirty days in a year in addition to general

holidays may be taken by the associate with the approval of the Head of the Deptt. The general holiday, however, do not include the vacation period e.g. Summer, Winter, & Pooja Vacation. The women awardees would be eligible for maternity leave at full rates for a period, not exceeding three months, once during the tenure of their award.

b. The Associate may, in special cases, be allowed by the Commission leave without associateship for a period not exceeding three months during the tenure of award on the recommendations of the Supervisor and the Institution concerned. The period of leave without Associateship will count towards the tenure of Associateship.

6. RESERVATION:

Ten percent of the fellowships are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes provided they fulfil the minimum qualifications laid down for the award. In case, qualified candidates are not available, reserved fellowships may be treated as unreserved.

UNIVERSITY GRANTS COMMISSION

APPLICATION FOR THE U.G.C. RESEARCH ASSOCIATESHIP DURING 1976-77

1. Name of the applicant, designation and full address. _____

2. Date of Birth: _____

3. If belonging to Scheduled Caste/tribe. State name of the Caste/tribe.

4. Academic Qualifications:

Examination Passed	Year	Board/University	Division with percentage of marks
Higher Secondary			
First Degree			
Master's Degree			
Ph. D./Equivalent Examination.			

5. Title of Ph. D thesis, name of the Guide and an abstract of Ph. D thesis in about 500 words (in a separate sheet may be submitted).

6. Employments held so far: (Up-to-date)

Name of the Employer	Position held	Period		Emoluments (p.m.)
		From	To	

7. Research publications- title of the publication, year of publication, journal etc. may kindly be indicated (Reprints may be enclosed)

- 8.(a) Proposed plan of work to be undertaken under UGC Research Associateship award. -
 - (b) An abstract of the proposed plan of work in about 500 words may be given in a separate sheet.-
 - (c) A well defined time-bound research programme indicating the physical facilities available at the University/Institution where you propose to under take the work and the additional inputs that will be necessary in the pursuit of the proposed work duly recommended by the Head of the Deptt. may be attached.
9. Name of the Department/Institution and the Senior Faculty member with whom the work is proposed to be undertaken with UGC support. -
10. Names and address of three persons in other universities/research institutes actively engaged in the same area of research to whom a reference could be made
- 1.
 - 2.
 - 3.
11. Certified that:
- (a) General facilities required such as laboratories, equipment etc. are available in the department.
 - (b) No foreign exchange is required for taking up this project/foreign exchange is required indicating the specific items (score out whichever is not applicable)
 - (c) This research proposal has not been submitted to any other agency for assistance.

The UGC Research Associateships are intended only for persons who have shown extraordinary talent for research. All applications from eligible candidates, should therefore, be accompanied by a special reasoned recommendation by the Guide/Head of the Deptt. concerned in support of the case in a separate sheet.

Signature of the applicant

Signature and address of the Head of the Department

Department/University

Signature and address of the forwarding authority
Vice-Chancellor/Registrar

(with office seal)

Date

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Minutes of the meeting of the Committee on rationalization of posts of Researchers in the Central Universities held on July 13, 1976 in the office of the U.G.C.

Present:

1. Professor Satish Chandra
2. Professor R.C.Mehrotra
3. Professor Mohammad Shafi
4. Professor Gopal Tripathi
5. Professor Munis Raza
6. Shri R.K.Chhabra.
7. Dr. M.L.Mehta.

The Committee noted that a variety of posts of Researchers with different designations had been created by the Central Universities and it was essential to bring about some rationalization in this regard. It was also noted that the Commission has already agreed that wherever the posts of Research Assistants, Research Officers, Investigators, etc. fall vacant in the Central Universities, these vacancies may not be filled up till a decision has been taken on the rationalization of their designations and the tenure of appointments.

The Committee agreed to recommend that the following categories of posts of Researchers may exist in the Central Universities:

1. Research Fellows (Junior/Senior)
2. Research Associates.

The Research Fellowships (Junior/Senior) would be to provide an opportunity to students and teachers to undertake advanced study and research. The value and the term of award for such fellowships may be the same as those suggested by the University Grants Commission for fellowships instituted by it.

The Research Associateships will provide an opportunity to research students and teachers who have shown extraordinary talent for research and competence to take up research work independently. In this connection, it was noted that posts of Research Associates exist in the Central Universities particularly in departments recognised as centres of advanced study or departments under the special assistance programme of the University Grants Commission. The Committee also noted that the scale of pay of Research Associates has been revised from Rs. 400-950 to Rs. 700-1300 w.e.f. 1.1.73. No permanent appointments are to be made against the post of Research Associates and all the appointments are to be made initially for a period of 3 years which may be extendable for a further period upto 2 years. The Committee was of the view that the value of Research Associateship may be either

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in the scale of Rs. 700-1300 with allowances or they may be given fixed emoluments in the scale of Rs. 700-1300 with no allowances. In the former category, existing teachers could be selected on a tenure basis of 3 to 5 years. In the latter case, the work of the Research Associates be assessed after 3 years of the award and on the satisfactory performance of the incumbent, an increment of Rs. 150/- per month may be given.

It was noted that the value of the Research Associateship as instituted by the U.G.C. by direct award is between Rs. 700-1100 (Consolidated to be fixed individually) p.m. The Committee felt that the terms of these Research Associateships instituted by the Commission may be reviewed keeping in view the above recommendations.

The Committee was also of the view that posts of Research Assistants which exist in some Central Universities at present in different scales and with different qualifications were created by the universities with a view to provide assistance to the senior faculty members in doing their research work. The Committee was not happy with this situation and was of the view that posts of Research Assistants may not exist any more in the Central Universities. These posts as and when they fall vacant may be suitably converted into the posts of Research Fellows or Research Associates.

The Committee noted that some posts of Research Officers exist in Aligarh Muslim University and Banaras Hindu University. The Committee was not in favour of having such categories of posts in the Central Universities (excluding posts of Pool Officers created by CSIR).

The Committee was also of the view that there is a need to appoint senior supporting technical staff in the Central Universities in view of the sophisticated instrumentation facilities available in the Central Universities for the purpose of advanced research. It was agreed that posts with suitable designations such as Scientists A/B/C as in the C.S.I.R. or as in the I.C.A.R. may be created in the Central Universities in the pay scales as indicated below :-

- Scientists - A Rs. 700-1300
- Scientists - B Rs. 1100-1600
- Scientists - C Rs. 1500-2000.

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CONFIDENTIAL

UNIVERSITY GRANTS COMMISSION

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Meeting :

Dated : 22nd September, 1976.

Item No 22 :To consider a reference received from the Ministry of Education and Social Welfare regarding institution of Chairs in Eastern region on the Birth Centenary of Sarat Chandra Chatterjee.

The Ministry of Education and Social Welfare have forwarded the following extract from the minutes of the first meeting of the Departmental Committee for the Birth Centenary of Sarat Chandra Chatterjee held on 3rd July, 1976 for institution of Chairs in the Eastern Region on the Birth Centenary of Sarat Chandra Chatterjee.

Chairs on Sarat Chandra Chatterjee.

"The representative of the West Bengal Government suggested that Chairs on Sarat Chandra Chatterjee may be instituted in the universities in the Eastern region. The Committee agreed to forward the suggestion to the University Grants Commission for necessary action."

The matter is placed before the Commission for consideration.

DS (CP)

SLK