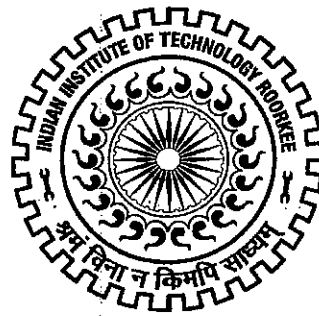


अभिशासक परिषद
की अष्टम् बैठक का कार्यवृत्त

MINUTES OF THE 8TH MEETING OF THE
BOARD OF GOVERNORS

28TH JANUARY 2004



भारतीय प्रौद्योगिकी संस्थान रूड़की
रूड़की - 247 667 (भारत)

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE-247 667 (INDIA)

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE 247 667



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**MINUTES OF THE 8th MEETING OF THE BOARD OF GOVERNORS HELD
ON 28th JANUARY 2004 AT 10.00 A.M. IN THE BOARD ROOM OF THE IIT
DELHI.**

PRESENT:

- | | | |
|-----|-----------------------------------|-------------------|
| 1. | Prof. S. K. Joshi | - Chairman |
| 2. | Prof. Prem Vrat, Director, IITR | - Member |
| 3. | Mr. V.S.Pandey, | - Member |
| 4. | Prof. D.P.Singh, | - Member |
| 5. | Mr. Dharamvir | - Member |
| 6. | Prof. R. Natarajan | - Member |
| 7. | Prof. H.K.Verma | - Member |
| 8. | Prof. A.K.Jain | - Member |
| 9. | Prof. M. L. Kapoor, Dy. Director | - Special Invitee |
| 10. | Lt. Col. (Retd.) A. K. Srivastava | - Secretary |
| | Registrar, IITR | |

Apology was received from Dr. K.N. Shukla, Dean, College of Technology, G.B. Pant University of Agriculture & Technology, Pant Nagar for not attending the meeting.

At the outset, the Chairman welcomed the members to the 8th Meeting of the Board of Governors. Before taking up the agenda, the Board of Governors thanked the under mentioned outgoing members and recorded its appreciation for their valuable contribution in the meetings of the Board.:

1. Dr. R.S.Tolia, Chief Secretary to Uttaranchal Government
2. Prof. K.G.Ranga Raju, Department of Civil Engineering, IIT Roorkee
3. Prof. M.L.Kapoor, Department of Met. & Mat. Engg., IIT Roorkee
4. Mr. Sudripto Roy, Principal Secretary (Tech.), Himachal Govt., Shimla

The Board of Governors also welcomed the following new members and solicited their valuable contribution and active participation in its functioning:

1. Mr. Avay Shukla, IAS, Principal Secretary to Govt. of H.P., Tech. Education Deptt., Shimla.
2. Prof. K.N.Shukla, Dean, College of Technology, G.B.Pant University of Agriculture & Technology, Pantnagar.
3. Prof. H.K.Verma, Department of Electrical Engg., IIT Roorkee
4. Prof. A.K.Jain, Department of Chemistry, IIT Roorkee

The agenda was then taken up.

Item No.8.1.1 To confirm the minutes of the Seventh Meeting of the Board of Governors held on 11th October 2003.

The minutes of the Seventh meeting of the Board of Governors held on 11th October 2003 were confirmed as circulated.

Item No.8.1.2 To receive a report on the action taken on the decisions of the previous meeting of the Board of Governors held on 11th October 2003 and pending items of previous meetings of the Board.

The Board **NOTED** the position of the actions taken on the Minutes of the above meetings with the following observations:

Item No.2.4.9 dated 29.06.2002: Recommendations of the Committee approved by the Director regarding purchase made by certain Departments from M/S Universal Refrigeration Corporation, Faridabad - Administrative action be initiated to hold enquiries against the persons found responsible for the monetary loss to the University/Institute as per the enquiry report submitted by the C.V.O. of the Institute, provided that an effected employee has not retired from the service more than 04 years ago.


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Item No. 7.2.1 : Proposal to start a new M.Tech programme on Industrial Safety Hazard Management as recommended by the Senate - The proposal be forwarded to MHRD for approval, if required under norms.

Item No. 7.4.3: Procurement of a new EPABX system of 5000 lines in replacement of the existing EPABX system of 1250 lines - The work of procurement of a modern EPABX system of 5000 lines should be completed by 30th June 2004. The job should be done in the project mode. Director should monitor the progress of the work and deviations, if any, may be reported to BOG. Specific progress report of the work be placed before the BOG.

Item No. 7.4.4: Issue of Dr. Ram Phal Ram, Asstt. Professor in Mett.& Mat. Engg. Department, who has not opted the retirement option of IIT Roorkee from 60 years to 62 years in reference to Notification No. Estt(B)/236/E-2266 dated 25.1.2002 - The Board decided that his age of retirement will be 60 years.

Item No. 7.4.16: Release of GPF Contribution of Institute employees lying with the State Government of Uttar Pradesh and Uttaranchal - Chairman, BOG may write to the Chief Minister, Uttaranchal to expedite payment of the amount due. Chairman, BOG and Director may also meet the Chief Minister, Uttaranchal Government in this connection, if necessary.

Item No. 8.1.3

Presentation by Professor-in-charge, Planning on utilization and proposed expenditure of plan funds, showing the details of projects in hand, projects in the pipeline, equipment procured and to be procured with the capital outlay involved in each case.

The Chairman had stated that a presentation before the BOG was not necessary as it had already been made before the F.C.


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Item No. 8.1.4

To receive a report on the academic activities of the Department of Civil Engineering.

The presentation made by Dr. P.C.Jain, Professor & Head, Department of Civil Engineering on the academic activities/ achievements of the Department evoked interest from members of the Board. The Board desired that, a note be sent by Professor & Head, Department of Civil Engineering to the Chairman, BOG highlighting the role of the Department in the National project on Inter-linking of Rivers, the Golden Quadrilateral Road project and Pradhan Mantri Gram Sadak Yojana . Further, the Board made the following observations:

- (a) The department should re-consider diversification/ sub-specialisation or creation of full fledged new programmes in M.Tech.
- (b) The department should highlight in their brochure the facilities, which are truly unique.
- (c) The present Centres in the department should be called Research Groups of the Department.
- (d) The department should identify very few, but truly, thrust areas.
- (e) The department should set a target of 120 research papers per year in good journals for the next year.
- (f) The department should submit good proposals under the FIST programme aiming at level II funding.

Item No. 8.1.5

To receive a report from the Director on the significant developments/ issues since the last meeting of the Board held on 11.10.2003

The Board appreciated the report presented by the Director highlighting the significant developments/issues with special reference to (a) Third Annual Convocation (b) Prize Distribution Function (c) Foundation Day and Alumni Day (d) Director's


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Academic Activities (e) Balance Sheet / Audit (2002-2003)
(f) Annual Report (g) Placement (h) Academic Matters
(h) Research & Development (i) Nominations/ Appointments/
Tenure Extension (j) Recognition to Alumni (k) Honours and
Awards (l) MoU (m) New Equipments /Lab (n) Appointments
(o) Faculty (p) Seminar & Other Academic Events (q) Events
Organised (r) AHEC (s) Students Activities (t) Centre for
Continuing Education (u) Important visitors to the Institute
(v) Retirements (Non teaching).

Item No. 8.1.6

To receive a report on the status of implementation of specific projects funded by the Ministry of H.R.D. during the year 2002-2003.

The Board **NOTED** the status of implementation of specific projects funded by the Ministry of H.R.D. during the year 2002-2003 as given at 'APPENDIX 'A' & 'B'.

Item No. 8.1.7

To receive a report on the nomination of representatives of the State Government of Uttaranchal/ Himachal Pradesh & Haryana on the Board of Governors of the Indian Institute of Technology Roorkee for a period of two years from 1.1.2004 to 31.12.2005.

NOTED.

Item No.8.3.1

Payment of Dearness Relief to Pensioners/Family Pensioners of IITR on the basis of O.M. issued by Ministry of Personnel, Public Grievances & Pension, Deptt. of Pension & Pensioners Welfare.

The Finance Committee had considered this issue vide item No. 8.4. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/01/2004: RESOLVED THAT the present practice for payment of Dearness Relief to Pensioners/ Family Pensioners of IIT Roorkee be continued.


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Item No. 8.3.2

To consider criteria to allow change of Home Town, once in the entire service for the purpose of LTC.

The item was deferred. Further, the Board suggested that: -

- (a) Government of India Orders be followed meticulously. The issue be brought before the Board with complete information and draft guidelines.
- (b) Presently recorded permanent address will be taken as the 'HomeTown'. Original information be taken from the Service Book/ Personal file of the employee.
- (c) Since, the L.T.C. was also introduced by the U.P. Government, the definition of 'hometown' as per U.P.Govt. rules may also be brought before the Board.

Item No. 8.4.1

Absorption of "Y" and "Z" category workers against the vacant entry level posts of Group "C" and "D".

The Finance Committee had considered this issue vide item No. 8.5. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board resolved as under.


RESOLUTION NO. BG/02/2004: RESOLVED THAT the proposal for absorption of "Y" and "Z" category workers against the vacant entry level posts of Group "C" and "D" be not accepted.

Item No. 8.4.2

To consider the mapping of the post of Store Assistant, DPT to Store Keeper (4000-6000) instead of LDC (3050-4590)

The Finance Committee had considered this issue vide item No. 8.6. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/03/2004: RESOLVED THAT the mapping of the post of Store Assistant, DPT to the post of Store Keeper (Rs.4000-6000) be approved.


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Item No. 8.4.3 To provide Nursing Allowance to Nursing Staff & Patient Care Allowance to the Group 'C' & 'D' staff of the Institute Hospital.

The Finance Committee had considered this issue vide item No. 8.7. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.


RESOLUTION NO. BG/04/2004: RESOLVED THAT the issue be referred to the Ministry of Human Resource Development, Govt. of India

Item No. 8.4.4 To consider the constitution of screening committee for mapping of Research Technician and Refrigeration supervisor.

RESOLUTION NO. BG/05/2004: RESOLVED THAT the under-mentioned screening committee to judge such Research Technician and Refrigeration Supervisor who have appropriate qualifications and experience for giving them the personal scale of Rs. 8000-13500 with the designation of Technical Officer be approved:

- | | |
|---|----------|
| 1. Director | Chairman |
| 2. Head of the Department concerned | Member |
| 3. Senior most member of the Deptt. other than HOD | Member |
| 4. One Expert Member from outside the Institute from the panel given by the HOD | Member |
| 5. One person from SC/ST and OBC as the case may be | Member |

FURTHER RESOLVED THAT the Head of the Department may select a panel of 03 names from the approved list of Board/ Senate Nominees for faculty selections for Sl.No.4: One expert from outside the Institute. The same be approved by the Chairman on behalf of the Board.


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Item No. 8.4.5 **To consider the issue of granting Lumpsum Incentive for acquiring higher qualifications to the employees of the Institute.**

The Finance Committee had considered this issue vide item No. 8.8. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/06/2004: RESOLVED THAT the grant of Lumpsum Incentive for acquiring higher qualifications to the employees of the Institute, except the academic staff, be made effective as per the Central Government rules w.e.f. 28th January 2004.

Item No. 8.4.6 **To consider the recommendations of the Screening Committee constituted for the purpose of mapping in respect of 53 employees.**

RESOLUTION NO. BG/07/2004: RESOLVED THAT in respect of the 25 qualified employees, the designations and pay scales proposed in the agenda note be approved. However, 06 such employees, who are drawing provisional scales, higher than the scales sanctioned by the Government for their post, will get the difference between their present emoluments and the emoluments which shall be drawn by them in the mapped pay scale, shall be admissible as pay personal to them. In the case of 25 unqualified employees, the current designations to continue with their presently mapped scale as personal to them. However, 13 such employees, who are drawing provisional scales, higher than the scales sanctioned by the Government for their post, will get the difference between their present emoluments and the emoluments which shall be drawn by them in the mapped pay scale, as pay


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personal to them. The details are given at
APPENDIX-'C'. (BOG resolution No. BG/51/2003
dated 7th June 2003 refers).

Item No. 8.4.7 **To consider the request of Head, Department of Earth Sciences for relaxation in the essential qualifications for Associate Professor.**

RESOLUTION NO. BG/08/2004: RESOLVED THAT the practice followed by other IITs in such cases be obtained and the issue with full details and justification be placed before the BOG .

Item No. 8.4.8 **To consider the appointment of Dean (Administration) for the Main Campus & Dean (Saharanpur Campus).**

RESOLUTION NO. BG/09/2004: RESOLVED THAT the appointments of Dean (Administration) for the Main Campus & Dean (Saharanpur Campus) be approved.

Item No. 8.4.9 **To consider the change of designation of Shri K.C.Jain, Asstt. Engineer (Civil) serving on deputation in Construction Division to Asstt. Executive Engineer.**

RESOLUTION NO. BG/10/2004: RESOLVED THAT the change of designation of Mr. K.C.Jain, Asstt. Engineer (Civil) to Assistant Executive Engineer be approved.

Item No. 8.4.10 **To consider the modified constitution of Adarsh Bal Niketan, Indian Institute of Technology Roorkee, Koorkee Campus.**

RESOLUTION NO. BG/11/2004: RESOLVED THAT the constitution of Adarsh Bal Niketan, Indian Institute of Technology Roorkee, Roorkee Campus as modified by the School Management Committee (SMC) as given at **APPENDIX 'D'**, be approved.



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- Item No. 8.4.11** **To consider the recommendations of the Committee on relaxation in qualification for the purpose of next promotion under the Assured Career Progression (ACP) Scheme.**

RESOLUTION NO. BG/12/2004: RESOLVED THAT the recommendations of the Committee on relaxation in qualification for the purpose of next promotion under the Assured Career Progression (ACP) Scheme be not approved.

- Item No. 8.4.12** **To consider the replacement of existing Liquid Nitrogen Plant at Institute Instrumentation Centre.**

The Finance Committee had considered this issue vide item No. 8.9. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/13/2004: RESOLVED THAT an amount of Rs. 80.00 lacs for replacement of existing Liquid Nitrogen Plant at Institute Instrumentation Centre be approved.


- Item No. 8.4.13** **To consider the pay fixation of Sri Shamsher Singh, Technical Assistant, Department of Metallurgical and Materials Engineering**

The Finance Committee had considered this issue vide item No. 8.10. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/14/2004: RESOLVED THAT the representation of Sri Shamsher Singh, Technical Assistant, Department of Metallurgical and Materials Engineering be not accepted.

- Item No. 8.4.14** **To consider revision of the Governments Contribution towards the Contributory Provident Fund.**

The Finance Committee had considered this issue vide item No. 8.11. The recommendations of the Finance Committee were


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placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO.BG/15/2004: RESOLVED THAT the Employers and Employee Contribution towards the Contributory Provident Fund be approved @ 10% of basic pay w.e.f. 21.09.2001.

Item No. 8.4.15 To consider the procedure for initiating disciplinary action for consumption and carrying of intoxicating drinks in the IIT Roorkee.

The Finance Committee had considered this issue vide item No. 8.12. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board resolved as under.

RESOLUTION NO. BG/16/2004: RESOLVED THAT the under-mentioned procedure for initiating, disciplinary action for consumption and carrying of intoxicating drinks in the IIT Roorkee campus be approved:

1. STEP -I

- (a) Confirmation of drunkenness through a Breath Analyzer Test, to be certified by the Duty Medical Officer of the Institute Hospital.
- (b) Possession of liquor and consumption in Hostels and Guest Houses of the Institute be completely banned.
- (c) Public places be defined as offices, parks, playgrounds, departments, centres, Library, Cafeterias, roads, clubs etc

2. STEP-II

On occurrence of the situations in STEP-I, the following actions be initiated against the delinquent employee.

- (a) Automatic suspension of the concerned employee, once the test turns out to be positive.
- (b) Initiation of disciplinary action in accordance with Rules and expeditious completion of the same.


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Similar steps to be initiated if any student is involved in a case of drunkenness/intoxication.

Further, a sum of Rs. 75,000/- for purchasing an automatic breath analyser having data storage and result printing facility be approved. The system be installed in the Institute Hospital.

Item No. 8.4.16 **To consider the request of retired employees of the Institute for retention of Institute accommodation for a period of one year from the date of retirement.**

RESOLUTION NO.BG/17/2004: RESOLVED THAT the request of Mr. S.P. Sharma, P.T. (Retd.) and Mr. Narendra Kumar, T.A. (Retd.) for retention of Institute accommodation after retirement be approved as under:

- (a) First 04 months on normal licence fee.
- (b) Second 04 months on double the normal licence fee.
- (c) Thereafter, penal licence fee as per norms be charged.

Item No. 8.4.17 **To consider the matter related to raising the height of the Boundary Wall alongwith the main road and providing an internal approach for the residents of Niti Nagar area of the Institute.**


RESOLUTION NO. BG/18/2004: RESOLVED THAT the issue be deferred till consensus is received from the residents of Niti Nagar area.

Item No. 8.4.18 **To consider a proposal for constitution of Committees for Grievance Redressal:**

The Board considered the proposal for three-tier grievance handling mechanism in tune with other IITs and resolved as under.

RESOLUTION NO.BG/19/2004: RESOLVED THAT the under-mentioned Grievance Handling Mechanism be approved:

- (a) Institute Grievance Redressal Committee
- (b) Professorial Committee of the Department to act as the Departmental Grievance Handling Mechanism.


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FURTHER RESOLVED that the composition of the Institute Grievance Redressal Committee be approved as under. The tenure of the committee should be two years:

Institute Grievance Redressal Committee :

- | | |
|--------------------------|-------------------------------|
| 1. Nominee of Director | Chairman |
| 2. Nominee of Director | Member |
| 3. Nominee of Director | Member |
| 4. Nominee of Director | Member |
| 5. Registrar | Member (Ex-officio) |
| 6. A.R.Finance | Member (Ex-officio) |
| 7. Dy. Registrar (A)/(B) | Member Secretary (Ex-officio) |

Item No. 8.4.19 To consider the proposal for purchasing new vehicles for the Institute

The Finance Committee had considered this issue vide item No. 8.13. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/20/2004: RESOLVED THAT the under-mentioned new vehicle's for enhancing functional efficiency of the Institute be approved:

Sr. No.	Particulars	Quantity	Costs in lacs (Approx)
1.	Staff Cars: Maruti Esteem/Indigo VXi Euro-II*	02 No.	10.86
2.	Bus : 52 Seater Bus with standard seats and GP panels on LP 1510/52 5195 wheel base, EURO-I	01 No.	09.73
3.	Ambulance : Tata Model SFC 407/31 (4 x 4) 4 wheel drive, 3075 mm 4SP, two stretcher Ambulance (GP Panels) EURO-I	01 No.	08.56
4.	Motor Cycle : Royal Enfield Bullet for the Security Staff OR Interest free loan to Security Inspectors with reimbursement of Transport Allowance	02 Nos.	01.02
*One existing Staff Car to be replaced once it is phased out. (Total Staff Cars - 04)			


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Item No. 8.4.20


To consider the simplified procedure for obtaining 'No Dues' clearance by retiring employees of the Institute.

The Finance Committee had considered this issue vide item No. 8.14. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/21/2004: RESOLVED THAT the under-mentioned procedure for obtaining 'No Dues' by retiring employees of the Institute be approved:

1. The concerned Establishment Section (Establishment 'A'/B') should notify the date of retirement of an employee three months in advance to all Heads of the Departments/ Centres/ Units/ Sections of the Institute including KIH with the request that the concerned Establishment Section be apprised by the first of the month in which the employee is supposed to retire, if anything, is due from the retiring employee.
2. Nil report will be assumed, if the Heads of Departments/ Centres/ Units/ Sections do not respond by the due date, except for -
 - (i) Finance & Accounts office
 - (ii) Central Library
 - (iii) Estate & Works
 - (iv) SRIC Office

} Obtaining of 'No Dues' clearance from these sections in person would be necessary
3. Single point clearance be given by the concerned Head of the Departments by informing the various Sections under their control to send the "No Dues" clearance if any, by a certain date, failing which Nil Report be assumed and clearance be given to the retiring employees.
4. Head of the Departments/Centres/Units/Sections must invariably relieve all the retiring persons from their administrative responsibilities, three months in advance.


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5. The four Sections / Offices mentioned at para 2 above, will follow a similar procedure in their respective Sections/Offices for giving "No-Dues" clearance.

Item No. 8.4.21 To consider the Budget Estimates under Plan and Non Plan for the year 2004-2005.

The Finance Committee had considered this issue vide item No. 8.15. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/22/2004: RESOLVED THAT the Budget Estimates under Plan and Non Plan for the year 2004-2005 as given at **APPENDIX 'E'** be approved. Further, a detailed project report be prepared for expending the Plan funds with emphasis on developing teaching infrastructure and modernising instructional laboratories and workshops for the undergraduate students.

Item No. 8.4.22 Payment of assistantship to M.Tech. and Ph.D. students directly into their bank accounts

The Finance Committee had considered this issue vide item No. 8.16. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee.

RESOLUTION NO. BG/23/2004: RESOLVED THAT the under-mentioned procedure for payment of assistantship to M.Tech. and Ph.D. students directly into their bank accounts be approved:

1. The Head of the Departments should send information with respect to the defaulters for non-payment or deduction of assistantship as per Institute norms to the Account Office by 05th of every month.


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2. Departments should also submit a nil report in case there are no defaulters.
3. If the report is not received by the stipulated date i.e. 05th of every month from any Head of the Department, the Asstt. Registrar (Finance) will confirm the nil report from the concerned HOD through telephone/e-mail.
4. Accounts Office would pay the monthly amount of the assistantship directly into the bank account of the concerned student by 10th of every month after making the necessary deductions in respect of defaulters.
5. The practice be also adopted for all M.Tech. and Ph.D. students getting assistantship/ fellowship from any source upon receipt of funding from the respective source.
6. Confirmation of non-payment/ reduced payment be sent by the Accounts Office to concerned HOD by e-mail.

Item No. 8.4.23 To consider re-pooling of License fee of the Institute residences

The Finance Committee had considered this issue vide item No. 8.17 and the same was withdrawn by the Finance Committee. Accordingly the Board also had withdrawn this item.

It was further suggested that the matter should be governed by Central Government rules only. Reduction in the licence fee, if any, be properly justified as per Central Government rules.

Item No. 8.4.24 To consider the issue related to coverage of the Institute Messes under the Employees State Insurance (ESI) Act 1948.

The Finance Committee had considered this issue vide item No. 8.18. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee



RESOLUTION NO. BG/24/2004: RESOLVED THAT the Government be approached for exempting the IITR Mess employees from the provisions of the ESI Act, 1948.

Item No. 8.4.25 To consider to provide Woolen Jersey Pullovers for Security Inspector(s).

The Finance Committee had considered this issue vide item No. 8.19. The recommendations of the Finance Committee were placed before the Board of Governors. After discussion, the Board approved the recommendations of the Finance Committee

RESOLUTION NO. BG/25/2004: RESOLVED THAT the expenditure of Rs. 1,000/- once in three years be approved for this purpose. Further, the Director be delegated financial powers admissible to Heads of Organizations as per the Government of India Orders on the subject

Item No. 8.5.1 To report the decisions/ actions taken by the Chairman, Board of Governors on behalf of the Board of Governors.

The Board ratified the approvals accorded by the Chairman, BOG on behalf of the Board.

RESOLUTION NO. BG/26/2004: RESOLVED THAT the approvals accorded by the Chairman, BOG on behalf of the Board, in the matters listed below, be ratified.

- (a) Payment of Dearness Allowances, Dearness Relief to Pensioners/ Family Pensioners at revised rates w.e.f. 1.7.2003 and Non Productivity Linked Bonus (ad-hoc bonud) for the year 2002-03 to the employees of IIT Roorkee.
- (b) Annual Report on the working of the Indian Institute of Technology Roorkee for the year 2002-2003.
- (c) Award of degree of Ph.D./ M.Tech. & PG Diploma in the Convocation of 2003:


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Award of Ph.D./ M.Tech. & PG Diploma to the under-mentioned students were approved on behalf of the Board of Governors:

Sl. No.	Name of Student	Programme	Department
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1.	Amar Nath Tiwari	Ph.D.	Electrical Engg.
2.	Ashok Kumar Pandey	Ph.D.	Electrical Engg.
3.	Buta Singh	Ph.D.	Met. & Mat Engg.
4.	H.K.Abdul Kadir	Ph.D.	Chemistry
5.	Hardeep Singh	Ph.D.	Civil Engineering
6.	Pawan Kumar Modi	Ph.D.	AHEC
7.	Rabindra Kumar Banik	Ph.D.	Civil Engineering
8.	Sanjeev Kumar	Ph.D.	Civil Engineering
9.	Vinod Kumar Giri	Ph.D.	Electrical Engg.
10.	Anvita Kumar	Ph.D.	Biotechnology
11.	Shipra Mittal	Ph.D.	Chemistry
12.	Pankaj Kumar	M.Tech.	ERDCI & ITR
13.	Tirtha Raj Adhikari	PG Dip.	Hydrology

- (d) Guidelines for re-employment of faculty upto the end of Semester/ Academic Session. (**APPENDIX 'G'**)
- (e) Signing of Letter of Intent for the creation of Indo-Swiss Academic Alliance (ISAA). (**APPENDIX 'F'**)
- (f) Recommendations of the Selection Committee for the positions of Professor, Associate Professor, Assistant Professor and Lecturer (on contract) in the Department of Chemical Engineering.
- (g) Recommendations of the Selection Committee for the positions of Professor, Associate Professor, Assistant Professor and Lecturer (on contract) in the Department of Earth Sciences.
- (h) Recommendations of the Selection Committee for the positions of Professor, Associate Professor, Assistant Professor and Lecturer (on contract) in the Department of Biotechnology.
- (i) Recommendations of the Selection Committee for the positions of Professor, Associate Professor and Assistant Professor in the Department of Mechanical & Industrial Engineering.


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- (j) Procedure for Research & Consultancy Awards
- (k) Request of Mr. Ajay Kumar Sharma for reliving him from the post of Asstt. Registrar to join Punjab Technical University, Jalandhar (Punjab), as Deputy Registrar on lien basis.
- (l) The change of name of the "Indo-US Workshop on River Bank Filtration" to "International Workshop on River Bank Filtration" to be organised in Civil Engineering Department in March 2004.
- (m) Re-employment of faculty members Retiring/Retired in the current semester upto the end of spring semester i.e. 30th June 2004.
- (n) Appointment of Prof. V.N. Singh as Acting Head, Department of Earth Sciences from December 1st to 31st, 2003
- (o) Balance Sheet and Auditing of Accounts
- (p) Permission to Dr. (Mrs) Ritu Barthwal, Member Coordinator to take all necessary actions pertaining to floating of tenders, placing orders and operation of funds for installation of NMR facility:
- (q) Nomination of two persons by the Board of Governors on the Finance Committee of the Institute.
- (r) Proposal to invite Dy. Director of the Institute in the meetings of the Board of Governors as a Special Invitee.
- (s) Appointment of new Heads of the Departments.
- (t) Extension of contract service of Dr. P.S.Chani and Mrs. Mahua Mukherjee, Lecturers on contract in the Department of Architecture & Planning.
- (u) Certain modifications in the proposed First Statutes of the IIT Roorkee.
- (v) Recommendations of the Selection Committee for the positions of Professor, Associate Professor, Assistant Professor & Lecturer (on contract) in the Department of Humanities & Social Sciences.

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Item No. 8.5.2 To report certain matters for the Information of the Board of Governors.

RESOLUTION NO. BG/27/2004: RESOLVED THAT the matters, as listed below, be noted and recorded.

- (a) 7th meeting of the Finance Committee of IIT Roorkee was held on 11th October 2003.
- (b) The following faculty members were appointed as per the details given below:-

Sl. No.	Name	Department	Designation	Date of appointment
1.	Dr. M.V. Kartikeyan	Associate Professor (on contract)	E. & C.E.	14.07.2003
2.	Dr. Ankush Mittal	Assistant Professor	E. & C.E.	01.10.2003
3.	Dr. Ghanshyam Das Verma	Asstt. Professor	Physics	06.10.2003
4.	Dr. Ben. M.J. Pereira	Professor	Biotechnology	22.10.2003
5.	Dr. Rajesh Pratap Singh	Associate Professor	Biotechnology	22.10.2003
6.	Dr. Vikas Pruthi	Assistant Professor	Biotechnology	22.10.2003
7.	Dr. Ashwani Kumar Sharma	Assistant Professor	Biotechnology	22.10.2003
8.	Dr. Pradeep Kumar	Professor	MIED	22.10.2003
9.	Dr. Satish Chandra Sharma	Professor	MIED	22.10.2003
10.	Dr. D.K. Mukhopadhyay	Professor	Earth Sciences	23.10.2003
11.	Dr. R. Anbalagan	Associate Professor	Earth Sciences	23.10.2003
12.	Dr. A.K. Saraf	Associate Professor	Earth Sciences	23.10.2003
13.	Dr. (Mrs.) S. Mukhopadhyay	Associate Professor	Earth Sciences	23.10.2003
14.	Dr. G.J. Chakrapani (On PDL)	Associate Professor	Earth Sciences	23.10.2003
15.	Dr. Sunil Bajpai	Associate Professor	Earth Sciences	28.10.2003
16.	Dr. Shri Chand	Professor	Chemical Engg.	31.10.2003
17.	Dr. V.K. Agarwal	Associate Professor	Chemical Engg.	31.10.2003
18.	Dr. Binoy Krishna Patra	Lecturer (on contract)	Physics	10.11.2003
19.	Dr. Dharmendra Singh	Assistant Professor	E. & C.E.	17.11.2003
20.	Dr. R. Krishnamurthi	Asstt. Professor	Earth Sciences	19.11.2003
21.	Dr. Vipul Rastogi	Asstt. Professor	Physics	19.11.2003
22.	Dr. Partha Roy	Asstt. Professor	Biotechnology	14.01.2004
23.	Dr. Aalok Misra	Asstt. Professor	Physics	05.01.2004
24.	Dr. H.S. Dhaliwal	Professor	Biotechnology	20.11.2003
25.	Dr. Nidhi Bhandari	Asstt. Professor	Chemical Engg.	23.12.2003

Note: In future, while reporting the appointment of new faculty members, a 1/2 page brief bio-data be placed before the Board.


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(c) The following faculty members and other staff have superannuated/Resigned/Expired :-

Sl. No	Name	Designation	Department	Date Superannuated/Resigned /Expired
1.	Dr. S.K. Pathak	Professor	Civil Engg.	04.10.2003 (Expired)
2.	Dr. S.K. Thakkar	Professor	Earthquake Engg.	31.10.2003
3.	Dr. S.D. Bhattacharya	Professor	Chemical Engg.	31.10.2003
4.	Dr. A.P.Gupta	Professor	Mathematics	31.10.2003
5.	Sri P.K. Jain	Professor	Civil Engg.	31.10.2003
6.	Dr. R.P. Sinha	Assoc. Professor	Mathematics	17.11.2003 (Expired)
7.	Dr. B. Prakash	Professor	Earth Sciences	30.11.2003
8.	Dr. R.M. Vasan	Professor	Civil Engg.	30.11.2003
9.	Dr. T. Ravichandran	Lecturer (on contract)	Hum. & Soc. Sc.	18.12.2003 (Resigned)

(d) Nomination of two Professors of the Institute (Prof. H.K.Verma, Department of Electrical Engineering & Prof. A.K.Jain, Department of Chemistry) as Senate Nominees on the Board of Governors.

UNDER ANY OTHER ITEM:

Item No. 8.4.26 To consider the constitution of Faculty Forum, IIT Roorkee.

RESOLUTION NO. BG/28/2004: RESOLVED THAT the constitution of Faculty Forum of IIT Roorkee as given at **APPENDIX 'H'** be approved.

It was **FURTHER RESOLVED** that the existing Staff Association that is continuing from the erstwhile University of Roorkee will stand dissolved.

The meeting ended with vote of thanks to the Chair.



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ANNEXURE 'A'

PROGRESS REPORT IN RESPECT OF MHRD PROJECTS SANCTIONED DURING THE YEAR 2002-2003

UNDER SCHEME OF MODERNISATION AND REMOVAL OF OBSOLESCENCE (MOD)

PERIOD FROM 1ST APRIL 2003 TO 30th Sept., 2003

S. No.	Name of PI / Deptt.	Title of Project	Project Sanction Letter No.	Date of Sanction of Project	Period	Grant Released	Date of Released of Grants	Date of Commence-ment on the project	Expenditure	Progress of Work
1.	Dr. B. Prakash Earth Sciences Deptt.	Modernisation of Laboratory Facilities in Earth Sciences	F.28-4/ 2002.TS.V	31.3.03	2 years	14.00	17.4.03	15.5.03	Nil	It is pointed out that we had floated quotations for supply of the required equipment under the above schemes. However, it is to also mention that only research equipment should have to be purchased under this scheme which we have already started the process.
2.	Dr. Satya Prakash Met. & Mat. Engg. Deptt.	Development of Non Destructive Testing Laboratory	F.28-4/ 2002.TS.V	31.3.03	2 years	17.00	17.4.03	15.5.03	Nil	Non Destructive Testing Laboratory is being set up. Liquid Penetrant test kit has been acquired. Facilities for Magnetic Particle Inspection (MPI). Ultrasonic Testing and Eddy Current Testing are being procured. This will help in conducting practicals and demonstration for UG and PG course on inspection and Quality Control. These courses are running as electives. Set up to residual stress measurement will also be required. Above testing facilities will help in area of Residual life Assessment of plants and machinery.

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APPENDIX 'A'

PROGRESS REPORT IN RESPECT OF MHRD PROJECTS SANCTIONED DURING THE YEAR 2002-2003

UNDER SCHEME OF THRUST AREA OF TECHNICAL EDUCATION (TAT)

PERIOD FROM 1ST APRIL 2003 TO 30th Sept., 2003

S. No.	Name of PI / Deptt.	Title of Project	Project Sanction Letter No.	Date of Sanction of Project	Period	Grant Released	Date of Released of Grants	Date of Commencement on the project	Expenditure	Progress of Work
1.	Dr. Ashok Kumar Earthquake Engg. Deptt.	Structural Identification and health monitoring of Multi-Storeyed Reinforced Concrete Buildings	No.F.27-1/2003.TS.V	31.3.03	2 years	16.00	9.4.03	15.5.03	NIL	<ol style="list-style-type: none"> 1. <u>Procurement of Equipment</u> : Detailed specifications of equipment and software have been finalized and purchase indent is being placed. 2. <u>Recruitment of SRF /JRF</u>: Post for SRF/JRF was advertised in June 2003 with last date of July 20, 2003. Only one application was received. Screening Committee was done. During screening committee it was known that the candidate has already been appointed as JRF in another project of the department. It was decided to re advertise the post. 3. Detailed literature survey on this field has already been performed. Methodologies used in damage detection and structural health monitoring are being analysed. 4. Work is in progress with regard to design of a two bay three storied space frame RCC model. It has also been decided to perform experiments on simple RCC cantilevers to understand their behaviour before, during and after the failure. Experiments on the space frame model and RCC cantilever will be performed on Quasi Static Testing Facility of our department.

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2.	Dr. V. Devadas Arch. & Planning Deptt.	Planning for Rainwater Resource Harvesting in Uttranchal	F 27-3/ 2003. TS.V	31.3.03	2 years	4.00	17.4.03	15.5.03	5000.00	<p>The study has the following objectives:</p> <ol style="list-style-type: none"> 1. To assess the existing water resources availability in the study area. 2. To estimate the rainwater availability in the study area. 3. To assess the potential of water harvesting in the study area. 4. To identify the appropriate methods of water harvesting techniques. 5. To evolve a feasible water harvesting plan for the development of the study area. <p>Work under progress:</p> <p>The following works are under progress:</p> <ul style="list-style-type: none"> • Literature collection in the field of water resource, water harvesting, water resource management, etc. • Discussion with experts in the field of water resource management in the National Institute of Hydrology, Roorkee. • Data collection is ongoing based on the first objective of the research to fulfill the first objective. • Other work is also under progress.
3.	Dr. Bikash Mohanty Chemical Engg. Deptt.	CFD Modeling of Chemical Process Equipment	F 27-3/ 2003. TS.V	31.3.03	2 years	13.00	17.4.03	15.5.03	237500.00	<p>A CFD software CFX with multiuser facility has been procured and installed in the department. Training for the same is scheduled from Oct.30,2003.</p> <p>Quotations for another CFD software FLUENT has been received and will be processed for purchase soon. Enhancement of computer hardware and OS, and purchase of high resolution printer will be made after finalization of new rate contract by IIT Roorkee.</p> <p>Two M.Tech. students are working on thesis topics related to CFD and will be using CFX for their dissertation work.</p>

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4.	Dr. S.K. Kaushik Civil Engg. Deptt.	High Performance Cementitious Matrices with Micro Fillers	F.27-3/ 2003. TS.V	31.3.03	2 years	15.00	17.4.03	15.5.03	44790.00	<p>Identification of suitable mix proportions of cement, super-plasticiser, water-binder ratio etc. for production of high strength concrete with micro-silica (a micro-filler) done. Casting of specimens (100 mm size cubes and 100 * 200 mm size cylinders) with the optimized mix proportions. Targeted compressive strength at 28 days lies between 80-90 MPa for the mixes. Casting of specimens with steel fibres also done with an objective of evaluating the effect of mixing steel fibres with different aspect ratios. Development of concrete mixes with alkali resistant glass fibre concrete with flyash. Cube (100 mm) and cylinder specimens (100 * 200 mm) casted with GFRC with targeted compressive strength at 28 days of about 60 MPa. The glass fibres are expected to increase compressive strength slightly as compared to the control mix, but increase in flexural and tensile strength is expected to be high. Fabrication work for steel cages for investigating utility of steel fibres in cement concrete for confinement effect done. Fabrication of U-box test apparatus and V funnel test set ups for evaluating self-compacting property of mortar and concrete accomplished.</p> <p>Purchase process under final stage for rapid chloride permeability test apparatus, linear voltage displacement transducers, LVDT signal conditioners, experimental set up for durability study etc. and one digital camera.</p>
5.	Dr. R.P. Agarwal E & C Engg. Deptt.	Materials and Development of Micro Electronic Sensors for Intelligent Transport System	F.27-3/ 2003. TS.V	31.3.03	2 years	10.00	17.4.03	15.5.03	Nil	<p>Traffic load is highly dependent on parameters such as time, day, season, weather and unpredictable situations such as accidents, special events or construction activities. If these parameters are not taken into account, the traffic control system will create bottlenecks and delays. A traffic control system that solves these problems by continuously sensing and monitoring traffic conditions and adjusting the timings of traffic lights according to the actual traffic load is called an adaptive traffic control</p>

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									<p>system. The basic component of this system is sensor.</p> <p>The data acquisition is performed using optical sensors. This data can be transmitted from field site to laboratory using a network where analysis can be carried out for evolving a decision making strategy for optimizing operation of traffic system. Currently work is going to develop software for analyzing this data gathered from field. The software aims at classifying vehicle categories on the basis of digital images. The application of video image processor has following benefits.</p> <ul style="list-style-type: none"> (i) Monitors Multiple Lanes and Multiple Zones. (ii) Easy to add and modify detection zones. (iii) Rich array of data available. (iv) Provides wide area detection when information is gathered at one camera location can be linked to another. <p>A comprehensive review has been made for the various sensors that can be useful for the proposed adaptive traffic system. On the basis of relative merits/demerits video based detection has been identified as suitable one and further work is being carried out to develop a software to analyze the data collected through this sensor.</p>
6.	Dr. J.D. Sharma Electrical Engg. Deptt.	Development of Cognitive and Neural Network Laboratory	F.27-3/ 2003. TS.V	31.3.03	2 years	6.00	17.4.03	15.5.03	<p>-</p> <p>Committed Expenditure 184000.00</p> <p>The equipment to be purchased under this project for developing the "Cognitive & Neural Network Laboratory" were identified and specifications of these equipment were prepared. The purchase of these equipment are under process. The list of experiments which can be performed by UG and PG students are also prepared. The work has also been started on hydro-thermal generation scheduling problem. For hydroelectric plant, the power generation is influenced by the reservoir release and available water storage in the plants. This situation become even more complex as the release of upstream plants may contribute to the inflow to the downstream plants. The purpose of hydroelectric</p>

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										generation scheduling problem is to find the optimal amount of generated powers for the hydro units. The objective function to be minimized in a hydro-thermal scheduling problems the total fuel cost of thermal units and the practical constraints to be satisfied include power generation-load balance equation and water balance equation. Thus the hydro-thermal scheduling problem is a typical constrained optimization problem. This problem is being solved with the help of Multiple-Layer Perceptrons neural network. Multiple-Layer Perceptrons do not offer that high internal parallelism and if trained using Backpropagation it may get stuck in local minima. From the parallel computing point of view there is an elegant way to handle this by running several instances with differently initialized weight sets on parallel processors. All instances themselves are run sequentially as there is no data exchange between the separately trained nets. The optimum architecture for MLP is being worked out and after procuring neural network processor, it will be implemented on it.
7.	Dr. K.N. Agarwal Mech. & Ind. Engg. Deptt.	Centre for Heat Transfer Studies in Eco Friendly Refrigeration System	F.27-3/ 2003. TS.V	31.3.03	2 years	7.00	17.4.03	15.5.03	58770.00	In continuation of the previous update more research papers which were recently published were studied. The trend of the governing parameters pertaining to the heat transfer rates were examined. This gave an idea of the scope of further research work in this field. Few eco-friendly gases which are currently under investigation are R 22, R 32, R 125, R 134 a, R 141b, R236ea, R407C, R410A and the refrigerant mixtures R32/R125, R32/R134a and R134a/R123. The attached Table 1 shows the progress of research in the area of heat transfer in eco-friendly refrigeration systems.

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8.	Dr. Satya Prakash Met. & Mat. Engg. Deptt.	Process Development for Recovery of Values from Metallurgical Waste	F.27-3/ 2003. TS.V	31.3.03	2 years	16.00	18.4.03	15.5.03	14280.00	Sludge from Pickling plant, solid waste from Zinc Ash processing, Mill scale and slag Mini Steel Plants from Western UP and Uttaranchal and RED Mud from Hindalco Renukoot is being collected. These solid waste are being characterized and toxic elements are being determined. The values in this toxic elements are being determine. The values in this solid wastes is also being determined to set up experimental procedures to extract the values and then detoxify the waste for final disposal.
9.	Dr. S.P. Singh Hum. & Social Sciences Deptt.	Efficiency and Productivity of Sugar Mills Application of Non Parametric Models	F.27-3/ 2003. TS.V	31.3.03	2 years	5.00	17.4.03	15.5.03	12160.00	During this period, theoretical literature on the DEA models was studied. Some research papers, which applied DEA models to measure the efficiency and productivity of decision-making units were collected and are being studied for identifying the appropriate models for out study. A few research papers on the Indian sugar industry were also collected and are being studied. In addition, data about number of sugar mills, state-wise production of sugar and sugarcane crashed, area under sugarcane, and production of molasses, etc., for the last 10 years, have also been collected. The process of downloading relevant literature from e-journals and Internet websites has been continuing. After reaching the literature on the subject, it is observed that the literature is very scant. Most of the available research papers, reports and articles are general in nature, having information about area, production and yield of sugarcane, and production, consumption and trade of sugar. So far, we hardly come across any study conducted on measuring the relatively performance of individual sugar mills, especially applying non-parametric models. Further, services of a person are hired on work-hire basis for collecting information and data on the industry. Procurement of equipment and purchasing of books out of project grant have been planned for the next six months.

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ANNEXURE 'C'

PROGRESS REPORT IN RESPECT OF MHRD PROJECTS SANCTIONED DURING THE YEAR 2002-2003

UNDER SCHEME OF RESEARCH & DEVELOPMENT (R&D)

PERIOD FROM 1ST APRIL 2003 TO 30th Sept., 2003

S. No.	Name of PI / Deptt.	Title of Project	Project Sanction Letter No.	Date of Sanction of Project	Period	Grant Released	Date of Released of Grants	Date of Commencement on the project	Expenditure	Progress of Work
1.	Dr. S.Y. Kulkarni Arch. & Planning Deptt.	Universal Design: A Barrier Free Approach for all Categories of the Disabled	F.26-1/2003.TS.V	31.3.03	3 years & 6 months	11.00	17.4.03	15.5.03	8500.00	<p>Further literature is being searched and reviewed to identify the key problems of the rural disabled. References in the form of e-journals, human development reports are currently in the process of review to develop a comprehensive idea of rural setups in Indian contexts. Paralelly literature is also being recognised that disabled people's participation in activities of daily life is limited not only by their individual impairments, but equally by external barriers. The following barriers have been identified as:</p> <p>Barriers in Physical Infrastructure And Environment Physically disabled people face numerous difficulties in accessing both natural rural environment and the built environment which is so constructed that only a specific type of user can maoeuvre in it. For eg.: Barriers to water sources, barriers to transporting water, barriers to using sanitation facilities.</p> <p>Psychological/Attitudinal Barriers Sometimes the greatest barriers for disabled people are negative attitudes and behaviour of community, and of service providers, both in the government and voluntary sectors. Social barriers are often less easy to identify than physical barriers and therefore less easy to change.</p>

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										<p>Institutional Barriers</p> <p>ACCESSIBILITY ISSUES: Accessibility has become a vital theme of discussion in the developed countries. It is becoming an important issue in the developing countries too. Considerations on accessibility creation in developing countries has to be based on certain issues that are prevalent in these countries. Important among them are:</p> <ul style="list-style-type: none"> a.) Economic Backwardness b.) False conceptions by society about disability and disabled persons c.) Less initiative on the part of government and voluntary agencies d.) Lack of organized movement of disabled persons e.) Over population f.) Absence of accessibility legislation. <p>Thus, accessibility criteria needs to be evolved by taking following points into consideration:</p> <ul style="list-style-type: none"> 1.) Cost Effectiveness 2.) Use of locally available resources 3.) Correspond to the technical aids used 4.) Depend on local living conditions 5.) Style of building 6.) Customs of land 7.) Lessons from the developed countries <p>Further potential areas are being explored in the Indian rural setups.</p>
2.	Dr. Krishen Kumar Civil Engg. Deptt.	Wind Disaster Mitigation Studies related to Chimney & Tall Buildings	F.26-1/ 2003.TS.V	31.3.03	3 years & 6 months	11.00	8.4.03	15.5.03	21750.00	(i) Literature survey work has since been completed. (ii) The plan of tests has been prepared to cover the following aspect. a. Use of different types of strakes for

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										<p>controlling across-wind response.</p> <p>b. Use of different techniques for simulation of wind flow.</p> <p>c. Studying interference effects from similar Chimneys.</p> <p>(iii) Development of Computer Programmes for theoretical evaluation of along-wind and across-wind response of chimneys is in progress.</p> <p>(iv) Design of aeroelastic models of two types of chimneys has been completed and quotations for fabrication of FRB models of the same invited.</p> <p>(v) Order for purchase of appropriate temperature compensated foil type strain gauges has been processed.</p> <p>(vi) Quotations for purchase of the major equipments (3 No. Miniature Accelerometers costing Rs.2.00 lac approx and 32 port/channel Scanivalve Electronic Pressure Sensor costing Rs.4.575 lac approx) were received and processed and orders for the same are being placed.</p>
3.	Dr. Praveen Kumar Civil Engg. Deptt.	Development of Design Procedure for Reinforced Flexible Pavement	F.26-1/ 2003.TS.V	31.3.03	3years & 6 months	8.00	8.4.03	15.5.03	Nil	<p>Literature Review is in Progress. Reinforcement of flexible pavement is considered as one of the modern stabilization techniques. Reinforced flexible pavements posses certain favorable characteristics in relation to unreinforced flexible pavements. These include increased resistance to cracking, high tensile strength, increased resistance to shear and more particularly longer fatigue life. The research conducted so far indicates that the concept of reinforcement of flexible pavement for improving its fatigue life has been in the theoretical stage since along time. The important factor in design of reinforced flexible pavement that must be taken into consideration is that the inclusion of a reinforcing layer between pavements layers will completely change the distribution of stresses and strains between layers. The process of purchasing the equipment is in process.</p>

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4.	Dr. Satish Chandra Civil Engg. Deptt.	Capacity of Uncontrolled Intersections under mixed traffic conditions	F.26-1/ 2003.TS.V	31.3.03	3 years & 6 months	8.00	8.4.03	15.5.03	- Commitment Expenditure 138400	<p>(i) The work on literature survey is continuing.</p> <p>(ii) The order for purchase of laptop computer has been placed with the Manager, Kendriya Bhandar, Mussorie.</p> <p>(iii) Quotations for other two equipment namely video camera and Radar gun have been invited.</p> <p>(iv) The preliminary data was collected at one intersection located in the East of Kailash, New Delhi. The general layout and geometry of the intersection is shown in Figure -1. The traffic data was collected through videography at leg 1 and leg 2 of this intersection (both 7 m wide approach) for modeling of vehicles arrivals. The data was extracted from the film in the laboratory and inter-arrival time of vehicle was noted. The composition of traffic stream at leg 1 and leg 2 of the intersection is shown in Figure 2. The hourly rate of arrival as observed in two legs is given below.</p> <p>Leg-1 : 1227 veh per hour Leg-2 : 1198 veh per hour</p> <p>Numbers of vehicles arriving in a 15 second interval were counted and the cumulative frequency tables were prepared. It was tried to fit the Piosson's distribution in the data. The probability of 'n' arrival in a time interval 't' is given by equation (1).</p> $P(n) = \frac{(\lambda t)^n e^{-\lambda t}}{n!}$ <p>Where P (n) = Probability of n arrivals t = time interval, sec λt = average rate of arrival in time interval 't'</p>
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										<p>The above distribution was fitted in the vehicle arrival data. Figures 3-4 show the comparison of observed and estimated frequency at two legs of the intersection. The chi-square was conducted to test the goodness of the fit and it was found that the vehicle arrivals follow the poisson distribution at both the legs.</p> <p>More data will be collected at some other intersection in Delhi/Lucknow to get further information on vehicle arrival characteristics particularly when vehicles are released from upstream signal and reach the intersection in platoons.</p>																									
5.	Dr. Pramod Agarwal Electrical Engg. Deptt.	Computer Controlled High Power Factor Converters	F.26-1/2003.TS.V	31.3.03	3 years & 6 months	10.00	8.4.03	15.5.03	94275.00	<p>The equipments required to carryout the project are being purchased. The details of the equipment is given below:</p> <p>Equipments Purchased:</p> <table><thead><tr><th>Sr.No.</th><th>Equipment</th><th>Cost Rs.</th><th>Status</th><th>Item no in Sanctioned Letter</th></tr></thead><tbody><tr><td>1.</td><td>High Speed Personal Computer</td><td>94275.00</td><td>Purchased</td><td>Item No.1</td></tr><tr><td>2.</td><td>Embedded DSP Based System with Simulation Software for Real Time Interface.</td><td>325000.00</td><td>Order is in pipe line</td><td>Item No.2</td></tr><tr><td>1.</td><td>Control Circuit PCBs</td><td>10000.00 (Approx.)</td><td>Faridabad</td><td>Item No.9</td></tr><tr><td>2.</td><td>Power Harmonic Analyzer</td><td>1.50 lacs (Approx.)</td><td>Enquiry floated</td><td>Item No.4</td></tr></tbody></table> <p>The topology of high power factor converter is selected and it is being designed. Few Projects and</p>	Sr.No.	Equipment	Cost Rs.	Status	Item no in Sanctioned Letter	1.	High Speed Personal Computer	94275.00	Purchased	Item No.1	2.	Embedded DSP Based System with Simulation Software for Real Time Interface.	325000.00	Order is in pipe line	Item No.2	1.	Control Circuit PCBs	10000.00 (Approx.)	Faridabad	Item No.9	2.	Power Harmonic Analyzer	1.50 lacs (Approx.)	Enquiry floated	Item No.4
Sr.No.	Equipment	Cost Rs.	Status	Item no in Sanctioned Letter																															
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2.	Power Harmonic Analyzer	1.50 lacs (Approx.)	Enquiry floated	Item No.4																															



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										<p>dissertations in this area are in progress. The list of projects is given below:</p> <p>Projects/M.Tech. Dissertations in Progress (at Present) :</p> <ol style="list-style-type: none"> 1. Performance Investigations on High Power Factor Bi-directional Converter fed DC Motor Drive. 2. Experimental Investigations on three-level PWM Converter. 3. Development of Multi-level Converter.
6.	Dr. Pramod Kumar Jain Mech. & Ind. Engg. Deptt.	Development of A Re-configurable Manufacturing System (RMS) framework using autonomous and Cooperative agent – based technology	F.26-1/ 2003.TS.V	31.3.03	3 years & 6 months	8.00	8.4.03	15.5.03	Nil	<p>A thorough study of the existing technologies is under progress for the formulation of system architecture of an RMS. It has been found that Holonic approach suits best for the proposed work. To implement the concepts of distributed control over the manufacturing related activities the agent technology is found to be suitable enough. Side by side a search for the suitable software tools for the modeling of system framework is also under progress. Through there are several tools available, but we are discussing their capabilities with the developers for their utility for this work. Recently one researcher has been hired to speed up the work of literature review, selection of suitable software tools and for programming work.</p>
7.	Dr. D.K. Paul Earthquake Engg. Deptt.	Seismic Safety of Masonry Infilled RC Framed Buildings	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	13.00	17.4.03	15.5.03	4600.00	<p>Masonry infilled RC buildings are the most common type used in India for engineered building. In this project, behaviour of masonry infills under earthquake loading is to be studied analytically and experimentally. Work on both the aspects has been initiated. A detailed literature review on in-plane and out-of plane behaviour of masonry infills has been performed. A survey of available software, which can be used for analytical studies is under progress. An extensive experimental study on Shock-Table has also been planned. Schedule for casting of specimen and testing is being worked out. Purchase of necessary equipment has been initiated and quotations have been invited. A SRF has recently joined (w.e.f. 11.09.2003). In addition, two M.Tech. students are also working on related topics.</p>

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8.	Dr. Deepak Khare WRDTC	Perspective of Rainwater Harvesting in Drought Prone Region of Madhya Pradesh	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	10.00	17.4.03	15.5.03	33955.00	<p>In the present project the work of selection of study area, data collection and purchase of equipments have been initiated during the said period.</p> <p>Study area "KHANDWA" is finalized are having discussions with the officials i.e. District Magistrate of Khandwa, CEO Zila Panchayat of Khandwa and other officials. Visited different villages of Khandwa District like Torn (where rainwater harvesting work has been done), Deshgaon (where partial work has been done) and to Sirra and Sahajla (where no work has been done).</p> <p>Regarding the theoretical background and infrastructure, data has been collected from different state government offices / departments i.e. ground water survey department, statistical survey department, country and town planning, irrigation department, land record survey department, hydro-meteorological department and to national informatics center for the collection of data. Data pertaining to groundwater, status of watershed development in two villages, cropping etc. is acquired.</p> <p>Date processing is being in progress, so that analysis and modeling can be done.</p> <p>For testing of the rainwater quality, equipments are to be purchased for which the necessary information are being collected. Other equipment and software are in the process of procurement.</p> <p>In brief, the work is progressing as per the proposal.</p>
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9.	Dr. Sandeep Singh Earth Sciences Deptt.	Migmatite Petrogenesis and Leucogranite Generation during Himalayan Collision	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	10.00	17.4.03	15.5.03	7080.00	1. Literature collection and documentation of the literature. 2. A field work was carried out and few samples were collected along Alakhnanda and Dhauliganga valley. 3. A person is hired on work hire basis for sample processing which were collected during field work. Thin section studies of the collected samples.
10.	Dr. N.P. Padhy Electrical Engg. Deptt.	Restructuring – Automation and Quality Power: Scope and Solution for Indian Power Sector	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	6.00	17.4.03	15.5.03	8000.00	Presently literature survey has been completed and collection of system data is in progress. Investigators have also analyzed the operation principle of different State Electricity Boards (SEBs) of India and scope for Restructuring – Automation. Briefly the work in progress are in the following direction. • Study of existing State Electricity Boards (SEBs) of India and their structures. • Analyse the need and scope of Restructuring and Automation within SEBs. • Measure the quality of power based on the harmonic power flow in the network (zone wise).
11.	Dr. S.N. Sinha E & C Engg. Deptt.	Development of Briefcase Satphone Terminal Antennas	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	8.00	17.4.03	15.5.03	960.00	A detailed simulation study has been carried out on the U-slot rectangular microstrip antenna using IE3D software. An aperture-coupled configuration is a two layer structure, with one layer consisting of a microstripline in whose ground plane a small rectangular slot is used for coupling energy from the microstripline to the rectangular patch antenna. The ground plane of the antenna is common with the ground plane of the microstripline. It has been found that introduction of U-slot on the microstrip antenna gives rise to two resonant frequencies – one corresponding to the fundamental patch resonant frequency and the other due to the U-slot. The basic idea is to bring the two resonant frequencies close to each other in order to obtain a larger bandwidth. It has been observed that there are a number of variables, which affect the resonant frequencies. These include the length and width of the arms of U-slot, its location of the patch, the size of the

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										<p>coupling slot, and the length of the open-circuited stub which is being used to match the impedance of the slot with the impedance of the slot. Besides, the shape of the coupling slot (rectangular, I-shaped, H-shaped) also has a strong effect on the antenna performance. An effort is underway to optimize the antenna performance by adjusting these parameters.</p> <p>Two experimental prototypes were also fabricated to check the results of the simulation. The experimental antennas were fabricated using a two-layer structure. For the microstripline, a PTFE substrate having $\epsilon_r = 6.0$ was used while the rectangular patch was etched on a PTFE substrate having $\epsilon_r = 2.33$ and thickness = 0.062". The antennas were tested on the network analyzer and the results were found to be in reasonable agreement with the simulated results.</p> <p>From the studies, it has been found that the in order to obtain the required bandwidth, it will not only necessary to adjust the various parameters mentioned above, but also, thicker substrates will have to be used. We are now planning to start studies on thicker substrates.</p>
12.	Dr. Pradeep Kumar Mech. & Ind. Engg. Deptt.	Pattern Tooling and Quality Optimization of Investment Castings	F.26-4/ 2002.TS.V	31.3.03	3 years & 6 months	8.00	17.4.03	15.5.03	19300.00	<p>Investment casting process involves the creation of a disposable wax pattern by injecting molten wax into a metal mold. A ceramic coating is deposited around the wax pattern. The ceramic shell mold is dewaxed and the alloy metal is cast into de dewaxed shell mold. The goal of the present work is to determine and develop tools for predicting pattern casting dimensions and to obtain optimal setting of process parameters for enhancing the quality of investment castings. Dimensional changes between the pattern tooling and its corresponding cast part occur as a result of thermal expansion, shrinkage, hot deformation and creep of wax, shell and metal during solidification and subsequent cooling. Thermo-mechanical properties of wax, shell and metal affect the difference between pattern tooling and cast part dimensions.</p>

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										<ol style="list-style-type: none">1. The experiment to evaluate the quality of wax pattern has been conducted and its analysis is going on. The die to make investment casting has been prepared.2. Literature regarding the process details, mechanism and FEM application has been collected.3. experiment design to prepare the castings so that the effect of various process parameters can be studied have been finalized.
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APPENDIX - 'C'

A. QUALIFIED CANDIDATES

Sl. No.	Name & Designation	Department	Mapped Designation	Present pay scale as per UOR system considering time scale, if any		Mapped Pay Scale & promotional time scale in which the employee is to be fixed	
				Pay Scale	Time Scale	Mapped Scale	Time Scale
1	Sri Mahendra Singh, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs. 4000-6000	Rs. 5000-8000 T.S.-I
2	Sri Dinesh Kumar, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
3	Sri Jai Karan, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
4	Sri Inder Pal Sharma, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
5	Sri Subodh Kr. Sharma, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
6	Sri Bijender Kr. Sharma, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
7	Sri Kailash Chand, Mechanic 'B'	MIED	Lab. Assistant	Rs. 3200-4900 (P)	Rs. 5000-8000 (P) T.S.- II	Rs. 3200-4900	Rs. 5000-8000 T.S.- II

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8	Sri Yogender Kumar, Mechanic 'B'	MIED	Lab. Assistant	Rs. 2610-3540	-	Rs. 3200-4900	-
9	Sri Ved Prakash,, Mechanic 'B'	MIED	Lab. Asstt.	Rs. 3200-4900 (P)	Rs. 4500-7000 (P) T.S.-I	Rs. 3200-4900	Rs. 4000-6000 T.S.-I
10	Mohd. Idris, Mechanic 'B'	MIED	Lab. Assistant	Rs. 2610-3540	-	Rs. 3200-4900	-
11	Sri Manjeet Singh, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 3050-4590	-	Rs. 4000-6000	-
12	Sri Satish Kr. Sharma, Mechanic 'A'	MIED	Sr. Lab. Assistant	Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs. 4000-6000	Rs. 5000-8000 T.S.-I
13	Sri M.P. Singh, Telephone Gd-I	Telephone Exchange	Telephone Operator GD-I	Rs. 3050-4590	Rs. 3200-4900 T.S.-II	Rs. 4000-6000	Rs. 5000-8000 T.S.-II
14	Sri Mahender Singh, Tele.GD-I	Telephone Exchange	Telephone Operator GD-I	Rs. 3050-4590	Rs. 3200-4900 T.S.-II	Rs. 4000-6000	Rs. 5000-8000 T.S.-II
15	Smt. Usha Juyal, Telephone Gd-I	Telephone Exchange	Telephone Operator GD-I	Rs. 3050-4590	-	Rs. 4000-6000	-
16	Sri V.D. Sharma, Mechanic 'B'	Construction Division	Lab. Assistant	Rs. 3200-4900 (P)	Rs. 4500-7000 (P) T.S.-I	Rs. 3200-4900	Rs. 4000-6000 T.S.-I
17	Sri Raj Pal Singh, Asstt. Foreman	Construction Division	Sub-Overseer	Rs. 3050-4590	-	Rs. 4000-6000	-
18	Sri Harendra Singh, Asstt. Foreman	Construction Division	Sub-Overseer	Rs. 3050-4590	-	Rs. 4000-6000	-
19	Sri Prem Chand, Mechanic	DPT	Lab. Asstt.	Rs. 2610-3540	-	Rs. 3200-4900	-

20	Sri H.K. Ahuja, Mechanic 'A'	MMED	Sr. Lab. Asstt.	Rs. 3050-4590	-	Rs. 4000-6000	-
21	Sri Sukmal Giri, Mechanic 'A'	MMED	Sr. Lab. Asstt.	Rs. 3050-4590	-	Rs. 4000-6000	-
22	Sri Arun Kr. Chopra, Mechanic 'A'	Chemical Engg.	Sr. Lab. Asstt.	Rs. 3050-4590	-	Rs. 4000-6000	-
23	Sri Satya Pal Singh, Mechanic 'A'	Chemical Engg.	Sr. Lab. Asstt.	Rs. 3050-4590	-	Rs. 4000-6000	-
24 *	Sri Rakesh Kumar, Mechanic 'A'	Earthquake Engg. Deptt.	Sr. Lab. Asstt.	Rs. 4500-7000 (P)	-	Rs. 4000-6000	-
25	Sri Surender Kumar, Ref. Mechanic	IIC	Technical Assistant	Rs. 4000-6000	Rs. 5000-8000 T.S.-I	Rs. 5000-8000	Rs. 6500-10500 T.S.-I



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B. NON-QUALIFIED CANDIDATES

Sl. No.	Name & Designation	Department	Designation	Present pay scale as per UOR system considering time scale, if any		Mapped Pay Scale considering time scale of UOR	
				Pay Scale	Time Scale	Mapped scale	Time Scale
1	Sri Isam Singh, Mechanic 'A'	MIED		Rs. 3050-4590	-	Rs.3200-4900	-
2	Sri Charan Singh, Mechanic 'A'	MIED		Rs. 3050-4590	-	Rs.3200-4900	-
3	Sri Ram Kalap Yadav, Mechanic 'B'	MIED		Rs. 2610-3540	-	Rs. 3050-4590	-
4	Sri Sunil Chandra, 'Asstt. Foreman'	MIED		Rs. 3050-4590	-	Rs.3200-4900	-
5	Sri Ilam Singh Mechanic 'A',	MIED		Rs. 3050-4590	-	Rs.3200-4900	-
6	Sri Satish Kr. Sharma, Mechanic 'B'	MIED		Rs. 3200-4900 (P)	Rs. 4500-7000 (P) T.S.-I	Rs.3050-4590	Rs. 4000-6000 T.S.-I
7	Sri Devi Lal, Mechanic 'A'	MIED		Rs. 3050 - 4590		Rs.3200-4900	
8	Sri R.L. Dhiman, 'Mechanic 'A'	MIED		Rs. 3050-4590		Rs.3200-4900	

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9	Sri Devendra Singh Kainth, 'Mech. B'	MIED		Rs. 3200- 4900 (P)	Rs. 4500- 7000 (P) T.S.-I	Rs.3050-4590	Rs. 4000-6000 T.S.-I
10	Sri D.P. Singh, 'Mechanic B'	MIED		Rs. 3200- 4900 (P)	Rs.5000- 8000 (P) T.S.-II	Rs.3050-4590	Rs. 5000-8000 T.S. II
11	Sri Rameshwar Prasad, 'Mech.'B'	MIED		Rs. 3200- 4900 (P)	Rs. 4500- 7000 (P) T.S.-I	Rs.3050-4590	Rs. 4000-6000 T.S.-I
12	Sri Lal Chand Verma, 'Mech. B'	MIED		Rs. 3200- 4900 (P)	Rs. 4500- 7000 (P) T.S.-I	Rs.3050-4590	Rs. 4000-6000 T.S.-I
13	Sri Umesh Kumar, 'Mechanic B'	MIED		Rs. 2610- 3540	-	Rs.3050-4590	-
14	Km. Puspa Mandal Tele.Gd-I	Telephone Exchange		Rs. 3050- 4590	-	Rs.3200-4900	-
15	Sri M.L. Doval, Telephone Gd-I	Telephone Exchange		Rs. 3050- 4590	Rs. 3200- 4900 T.S.-I	Rs.3050-4590	Rs. 4000-6000 T.S.-I
16	Sri Lekh Raj, Storekeeper	Construction Division		Rs. 3050- 4590	-	Rs.3200-4900	-

17	Sri K.L. Malhotra, Compounder	DPT		Rs. 3050-4590	Rs. 3200-4900 T.S.-I	Rs.3200-4900	Rs. 4000-6000 T.S.-I
18	Sri Ram Kishan, Mechanic 'B'	MMED		Rs. 3200-4900(P)	Rs.5000-8000(P) T.S.-II	Rs. 3050-4590	Rs. 5000-8000 T.S.-II
19	Sri Sultan Ahmed, Mechanic 'B'	Chemical		Rs. 3200-4900	Rs. 5000-8000 (P) T.S.-II	Rs. 3050-4590	Rs. 5000-8000 T.S.-II
20	Sri Surender Dutt, Mechanic 'A'	Earthquake Engg. Deptt.		Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs.3200-4900	Rs. 4000-6000 T.S.-I
21	Sri Om Prakash, Mechanic 'A'	Earthquake Engg. Deptt.		Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs.3200-4900	Rs. 4000-6000 T.S.-I
22	Sri Abdul Waheed, Mechanic 'A'	Elect. Engg. Deptt		Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs.3200-4900	Rs. 4000-6000 T.S.-I
23	Sri Raj Kumar, Mechanic 'B'	E&C		Rs. 3200-4900 (P)	Rs. 5000-8000 (P) T.S.-II	Rs.3050-4590	Rs. 5000-8000 T.S.-II

24	Mohd. Azam, Mechanic 'B'	E&C		Rs. 3200-4900 (P)	Rs. 5000-8000 (P) T.S.-II	Rs.3050-4590	Rs.5000-8000 T.S.-II
25	Sri Amir Hasan, Mechanic 'A'	E&C		Rs. 4500-7000 (P)	Rs. 5000-8000 (P) T.S.-I	Rs. 3050-4590	Rs. 4000-6000 T.S.-I



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APPENDIX 'D'

ADARSH BAL NIKETAN IIT CAMPUS, ROORKEE

CONSTITUTION

1. **Name** : The name of the school will be Adarsh Bal Niketan, IIT Campus, It will be abbreviated hereinafter as ABN.
2. **Objectives** : Intellectual, Moral and Physical Development of Boys and Girls
3. **Patron** : The Director, Indian Institute of Technology, Roorkee shall be the Patron
4. **School management Committee**: The management of the ABN will be looked after by the School Management Committee (SMC) constituted as follows:

(i)	Nominees of Chairman, Board of Governors, IITR	5 Members
(ii)	Nominees of Director, IIT Roorkee	3 Members
(iii)	President, Staff Association (Faculty), IITR	1 Member
(iv)	President, Employees Association, IITR	1 Member
(v)	Chairman Municipal Board, Roorkee	1 Member
(vi)	Principal, Senior Section	1 Member
(vii)	Head Mistress/Head Master, Primary Section	1 Member
(viii)	One teacher representative each of the Senior Section and Primary Section	2 Members
Total		15 Members

In section (i) and (ii) two members may be outsiders also. Depending upon the need, two members may be co-opted for one year.

5. **Office Bearers**
Following shall be the office bearers of the school

- (i) President
- (ii) Vice President
- (iii) Manager
- (iv) Associate Manager
- (v) Treasurer
- (vi) Secretary (Principal, Senior Section)

If required and agreed by the SMC, the post of Associate Manager and Treasurer may be jointly held by the same person.

6. **Tenure and Re-constitution of SMC**

The tenure of the SMC will be three years. Secretary will obtain the names of new members from concerned authorities two months before the expiry of the tenure


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of the committee. New Office Bearers will be elected in the first meeting of incoming SMC for three year duration.

7. Working of School Management Committee:

- (i) Minimum four meetings of the committee will be called in a year. Its information will be sent by Secretary three days in advance.
- (ii) The quorum for the meeting will be 5 i.e. one third of SMC strength.
- (iii) Urgent meeting may be called at 24 hours notice.
- (iv) A special meeting may be called on a written request of the two third members for any specific purpose.

8. Responsibilities of SMC

- (i) Every member may endeavor to participate in the meetings
- (ii) To look after the working of school and appointment of employees, their working and disciplinary action against them.
- (iii) To approve the list of selected employees, presented by Manager.
- (iv) To inspect the school.
- (v) To make the efforts to increase the assets/funds of school in order to offer better teaching facilities and extra curricular activities and to give suggestions for the development of school.
- (vi) To make working rules for the teachers, scholarships and selection committee, and various other operations of school.

9. Responsibilities of President

- (i) To preside over the executive committee meeting.
- (ii) To oversee the functioning of the school
- (iii) On the recommendation of Manager, make the temporary selections and in special circumstances, as an urgent measure take the disciplinary action against the employees.

10. Responsibilities of Vice President

To perform the Responsibilities of President in his/her absence and exercise the powers delegated to him.

11. Responsibilities of Manager

Manager will manage the school as below:

- (i) Make the correspondence on behalf of SMC.
- (ii) To implement the resolutions of the SMC.
- (iii) To pass all the bills for payment and control the expenditures as per budget.

12. Responsibilities of Associate Manager

- (i) To perform the Responsibilities of Manager in his/her absence.
- (ii) Responsibilities given by Manager/ SMC.

13. Responsibilities of Treasurer



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- (i) To maintain the financial records of the school
- (ii) To prepare the Annual Accounts as per Education Department Norms with the help of Principal.
- (iii) To prepare the Annual Budget of the School and present before the Executive Committee.
- (iv) To collect the funds related to school and as per Manager's instructions incur the expenditure as per provision in the budget.

14. Responsibilities of Secretary

- (i) To call the meeting on the instruction/approval of President and Manager.
- (ii) To issue the notice of meeting and prepare the agenda.
- (iii) To write the minutes of meeting.
- (iv) To maintain a dialogue between parents and teachers
- (v) To assist the SMC to examine and review the performance of school.

15. Schools Funds

School Funds will be collected from following resources:

- (i) Grants from IIT Roorkee
- (ii) Grants from Organisations of IIT Employees and Students
- (iii) Grants from Education Department
- (iv) Various Donations and Grants
- (v) Fees

16. Operation of Bank Account

Bank Account shall be operated normally by any two jointly amongst President, Manager and Treasurer. President is authorised to delegate his/her powers at his/her pleasure.

17. Modification in Constitution

The SMC, with the consent of two third members will have the right to make modification in the constitution and make the new rules. For this purpose, the notice along with modifications will have to be sent one week in advance. Board of Governors, IIT Roorkee will have the full right to modify or suspend the constitution until a new constitution becomes operative.

18. Audit

The SMC will nominate the auditor(s) to audit the accounts of the school.


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APPENDIX 'E'

BUDGET ESTIMATES – 2004-2005 (NON PLAN)

Rs. in lakhs

RS. in lakhs						
Sl. No.	Head of expenditure	As per actuals 2002-03	Current Year 2003-04			Budget Estimates 2004-05
			Budget Estimates	Expenditure upto 31 Dec 2003	Revised Estimates	
1.	Establishment Expenses					
(i)	Pay & Allowance	2384.51	2500.00	3024.29	2500.00	2900.00
(ii)	OTA and Honorarium	2.22	3.00	1.50	3.00	4.00
(iii)	Travelling Allowance	17.12	70.00	18.15	70.00	40.00
	LTC	-	25.00	23.36	25.00	35.00
(iv)	Children Education Allowance	0.27	2.00	2.21	2.00	4.00
(v)	Fund Contribution	3.02	4.00	1.56	4.00	4.00
(vi)	Pension and Gratuity	671.65	700.00	624.79	700.00	750.00
(vii)	Advances	37.33	100.00	45.80	100.00	100.00
(viii)	Security and Other Agencies	29.15	50.00	34.27	50.00	55.00
(ix)	Medical Expenses	116.68	130.00	116.32	130.00	150.00
(x)	Staff development and HRD	-	8.00	0.35	8.00	25.00
	Total	3261.95	3592.00	3892.60	3592.00	4067.00
2.	Academic and Other Educational Expenses					
(i)	Departmental Operating Costs	278.00	300.00	112.91	300.00	360.00
(ii)	Scholarships/ Fellowships	341.98	400.00	273.88	400.00	450.00
(iii)	Library – Books & Journals	295.03	300.00	16.70	300.00	350.00
		915.01	1000.00	403.49	1000.00	1160.00
(iv)	Other Educational Expenses ^(A)	128.84	216.50	135.31	202.50	270.00
4.	(a) Computerisation & Comp. Support Services/ Internet	-	5.00	0.59	5.00	100.00
	(b) National Facility (Shake Table etc.)	-	46.00	-	46.00	50.00
	Total	-	51.00	0.59	51.00	150.00
5.	Maintenance Expenses					
(i)	Estate Maintenance	209.98	225.00	163.50	225.00	500.00
(ii)	Water, Power and Fuel	179.09	250.00	121.97	250.00	350.00
(iii)	Property Tax	1.05	4.00	0.02	4.00	4.00
	Total	390.12	479.00	285.49	479.00	854.00
5.	Miscellaneous expenses ^(B)	105.25	163.00	88.21	177.00	195.00
6.	Transfer to Development Fund	-	-	-	-	-
	Grand total	4801.17	5501.50	4805.59	5501.50	6697.00

(A) The schedule of Other Educational Expenses attached

(B) The schedule of Miscellaneous Expenses attached


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A: Schedule of Other Educational Expenses

Rs. in lakhs

Sl. No.	Head of expenditure	As per actuals 2002-03	Current Year 2003-04			Budget Estimates 2004-05
			Budget Estimates	Expenditure upto 31 Dec 2003	Revised Estimates	
2. (iv)	Other Educational Expenses					
(a)	Convocation & other functions	5.48	14.00	12.84	14.00	17.00
(b)	Prizes & Medals	0.20	0.90	0.16	0.90	1.50
(c)	Research Projects	0.31	1.00	-	1.00	30.00
(d)	Training & Placement	3.80	5.50	4.76	5.50	8.50
(e)	Study Tour	2.72	4.60	4.62	4.60	5.00
(f)	Student Amenities (including NCC)	69.72	25.00	17.23	25.00	30.00
	(i) SC/ST student mess/ Fee SC/ST		23.00	7.36	23.00	25.00
	(ii) Mess Subsidy		65.00	43.82	65.00	70.00
(g)	Examinations	21.78	25.00	18.86	25.00	25.00
(h)	National Conference/ Symposium.	2.31	10.00	2.57	10.00	10.00
(i)	International Conference/ Symposium	19.00	25.00	14.49	25.00	25.00
(j)	Seminar/ Symposium (to be organised)	0.07	5.00	1.24	5.00	5.00
(k)	Publication (including News Letter)	3.30	10.00	7.30	10.00	15.00
(l)	Membership Fee	0.15	0.50	0.05	0.50	1.00
(m)	Short term academic visit to IITR	-	2.00	0.01	2.00	2.00
	Grand total	128.84	216.50	135.31	216.5	270.00

Note: for 2004-05

Research Projects

An estimated allocation of Rs 30.00 lakh is proposed.

This is In accordance with the decision of the Finance Committee and BoG held on 11 Oct 2003 that a separate budget head be created as faculty initiation grant. The Chairman, BoG, may grant an amount up to Rs 10.00 lakh based on the merits of the project proposals to existing/ new faculty out of this budget head, for attracting and retaining outstanding faculty. Since 10 such projects could be granted other modes of fund diversion are being proposed.


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B: Schedule of Miscellaneous Expenses
(Non-Plan Budget Estimates)

Rs. in lakhs

Sl. No.	Head of expenditure	As per actuals 2002-03	Current Year 2003-04			Budget Estimates 2004-05
			Budget Estimates	Exenditure upto 31 Dec 2003	Revised Estimates	
1.	Contingencies	14.35	16.00	7.14	16.00	22.00
3.	Staff Welfare (Faculty Perks)	21.88	40.00	14.51	40.00	45.00
4.	Transport.	8.11	12.00	3.96	12.00	15.00
5.	Legal Expenses	6.56	10.00	8.06	10.00	16.00
6.	Postage	2.52	5.00	1.26	5.00	5.00
7.	Uniforms & Liveries	7.17	17.00	12.72	17.00	19.00
8.	Entertainment	0.37	1.00	0.98	1.00	2.00
9.	Guest House	1.50	4.00	2.32	4.00	8.00
10.	Audit Charges	-	2.00	-	2.00	3.00
11.	Telephones	14.87	20.00	13.22	20.00	20.00
12.	Printing & Stationery	7.09	8.00	4.11	8.00	9.00
13.	Advertisement	1.19	2.00	1.90	2.00	5.00
14.	Repair & Maintenance-Office Equipment	4.64	6.00	3.37	6.00	6.00
15.	Replacement of old furniture	15.00	20.00	14.66	20.00	20.00
	Total	105.25	163.00	88.21	163.00	195.00


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BUDGET ESTIMATES – 2004-2005 (PLAN)

Rs. in lakhs

Sl. No	Head of expenditure	Actual Expendr. 2002-03	Current Year 2003-04		Revised estimates 2003-04	Budget Estimates 2004-05
			Budget Estimates	Expenditure upto 31 Dec 2003		
1.	Equipment:					
(i)	New equipment and Replacement of obsolete equipment & modernization of laboratories	705.67	1234.53	505.04	1234.53	1400.00
(ii)	Equipment for new deptt. • Information Technology/ NPTEL • Placement cell	5.20	100.00	0.40 0.66	100.00	130.00
(iii)	Equipment for new program • New M.Tech. etc. • NMR	-	100.00 *500.00	0.37 *500.00	100.00	200.00 -
(iv)	Office equipment / Automation/ Computerization of office functions	96.33	150.00	40.24	100.00	100.00
		807.20	1584.53 + *500.00	1046.71	1534.53	1830.00
2.	Upgradation of Computing facilities	298.52	200.00	51.53	200.00	350.00
3.	Upgradation of networking & multimedia facilities	91.96	400.00	238.75	373.00	350.00
4.	Strengthening of library	173.30	166.20	134.77	166.20	200.00
5.	Staff/ student Amenities (other than buildings) a. Hospital b. DoSW (clubs & sports) c. Dairy	19.73	150.00	2.46	50.00	100.00
	Total	583.51	916.20	427.51	789.20	1000.00
6.	Renovation / Extension of Buildings (including support services)					
(i)	Academic & Administrative Buildings	724.74	700.00	2105.04	950.00	700.00
(ii)	Residential buildings	473.91	800.00		1100.00	250.00
(iii)	Student's hostels and amenities	538.46	250.00		250.00	180.00
(iv)	Guest house, Comm. Centre	107.90	100.00		200.00	400.00
(v)	Modernisation of Convocation Hall	-	-	-	-	200.00
(v)	Development of G. Noida Campus	138.33	-	-	-	200.00
	Total	1983.34	1850.00	2105.04	2500.00	1930.00
	Grand total	3374.05	4823.73 + *500.00	3579.26	4823.73	4760.00

* carry forwarded to 2003-04, L/C opening in process

Note for 2003-04

- Grants received : Rs 1000.00 lakh
- Required from MHRD: Rs 3823.73 lakh

APPENDIX 'F'**Letter of Intent**

between the following organisations (hereinafter referred to as "the Parties")

Indian Institute of Science, Bangalore, India (hereinafter IISc),
represented by its Director, Professor G Mehta,

Indian Institute of Technology, Bombay (hereinafter IITB), represented by its
Director, Professor A Misra;

Indian Institute of Technology, Delhi (hereinafter IITD), represented by its
Director, Professor R S Sirohi;

Indian Institute of Technology, Guwahati (hereinafter IITG), represented by its
Director, Professor G Barua;

Indian Institute of Technology, Kanpur (hereinafter IITK), represented by its
Director, Professor S G Dhande;

Indian Institute of Technology, Kharagpur (hereinafter IITKGP), represented by its
Director, Professor S K Dube;

Indian Institute of Technology, Madras (hereinafter IITM), represented by its
Director, Professor M S Ananth;

Indian Institute of Technology, Roorkee (hereinafter IITR), represented by its
Director, Professor P Vrat;

Swiss Federal Institute of Technology Lausanne (hereinafter EPFL), represented by
its President, Professor P Aebischer

and

Swiss Federal Institute of Technology Zurich (hereinafter ETHZ), represented by
its President, Professor O Kübler.

The Parties agree to work towards an Indo-Swiss Academic Alliance under the framework of the general agreement on Science and Technology which is being signed between the Governments of India and Switzerland. The modalities of the Academic Alliance will be worked out by the Parties by mutual agreement.

The goals and objectives will be to establish a symbiotic relationship between India and Switzerland in the fields of science and engineering both in research and education through faculty-exchange, student-exchange, and joint-research programmes.

On behalf of IISc

On behalf of EPFL

Prof G Mehta
Director

Prof P Aebischer
President

On behalf of IITB

On behalf of ETHZ

Prof A Misra
Director

Prof O Kübler
President

On behalf of IITD

Prof R S Sirohi
Director

On behalf of IITG

Prof G Barua
Director

On behalf of IITK

Prof S G Dhande
Director

On behalf of IITKGP

Prof S K Dube
Director

On behalf of IITM

Prof M S Ananth
Director

On behalf of IITR

Prof P Vrat
Director

APPENDIX 'G'

DRAFT GUIDE-LINES FOR RE-EMPLOYMENT OF FACULTY (As recommended by D.C.)

1. The Professorial Committee of the concerned Department may recommend re-employment of a faculty member upto the end of the semester in which he/she is superannuating to DOFA well in advance with proper justification.
2. In case of a faculty member retiring in the autumn semester and seeking re-employment for the entire spring semester, the following justification/information must be provided with the recommendation of DPC :
 - (a) Justification for the teaching work proposed to be given to the concerned faculty member.
 - (b) His/her commitments to guide the on-going Ph.D. thesis, M.Tech dissertations/B.Tech. projects.
 - (c) Any other commitment of the concerned faculty member.
3. The recommendations for re-employment of a faculty member will be considered by Director/D.C. and, if accepted, will be sent to Chairman, BOG for his approval.
4. The faculty member to whom re-employment is granted, will get after retirement pension and the difference between the last salary drawn and pension.
5. The re-employed faculty member will be entitled to retain the following facilities:
 - (a) Residential accommodation
 - (b) Office accommodation and computer (with peripherals) in the department
 - (c) Telephone in office
 - (d) Telephone in residence
 - (e) Library membership and cards.
6. The re-employed faculty member will not be a member of any of the bodies of the Institute or department, like Senate, IAC, DPC, DFB, DRC, etc. and will not hold any administrative responsibilities.
7. He/she will submit a no-dues certificate at the time of retirement from all sections except for the items at serial no. (5) above. Subject to getting a no-dues certificate, gratuity and leave encashment etc. will be released after holding back 15% of the total gratuity amount payable to him/her. This amount will be released after he/she submits the final no-dues certificate at the end of the re-employment period.

8. He/she will be allowed to retain the residential accommodation for four months or beyond after the completion of re-employment period as per the rules of house allotment applicable to a retiring faculty member.



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THE FACULTY FORUM OF IIT ROORKEE


CONSTITUTION

(Proposed by Staff Association, IIT Roorkee)

APPENDIX 'H'

CONSTITUTION OF THE FACULTY FORUM OF IIT ROORKEE

- 1.0 Name of the Society The Faculty Forum of IIT Roorkee
- 2.0 Definition of faculty
Faculty is defined as group of members of Institute staff who are employed on permanent or contractual appointment and are involved in teaching and research at the Institute. These persons include the Director, Professors, Associate Professors, Assistant Professors and Lecturers.
- 3.0 Objective
 - 3.1 To promote interests towards creation of academic excellence and to encourage growth of professional opportunity to members.
 - 3.2 To encourage effective participation of members in framing and implementing the academic objectives of the Institute.
 - 3.3 To help improve general welfare of members.
- 4.0 Membership
All existing Faculty members, who are members of Staff Association, shall automatically become members of Faculty Forum as and when such a Forum is created. In future also, the membership of Faculty Forum shall be open only to the Faculty members of IIT Roorkee.
- 5.0 Subscription
 - 5.1 A monthly membership subscription proposed by the Executive Committee and approved by the General Body shall be charged.


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APPENDIX 'H'

5.2 All charges will be realized through the Accounts Section of the Institute.

6.0 Management

The faculty Forum will be managed by

- (a) Patron: Director IIT Roorkee shall be ex-officio patron of the Forum
- (b) General Body: shall consist of all members.
Executive Committee: shall consist of
 - (i) The President
 - (ii) The Vice President
 - (ii) The Secretary
 - (iii) The Treasurer
 - (iv) Immediate past president
 - (v) Immediate past secretary
 - (iv) Ten members of the General Body, of which five will be elected members, and five members will be co-opted by the Executive Committee.

7.0 Meetings of the General Body

- 7.1 Ordinarily the General Body will meet atleast once every semester.
- 7.2 An Extraordinary General Body meeting to consider emergent item of interest to the members can be called in the following manner.
 - 7.2.1 At any time with the initiative of the Executive Committee by a written request of a minimum of four members of the Executive Committee.
 - 7.2.2 With a written requisition signed by atleast 15% of the members. Such a meeting should be held within a period of 15 days of receipt of the requisition.
 - 7.2.3 Quorum for Extraordinary General Body meeting will be satisfied if 30% of the total number of members are present.
- 7.3 Quorum for General Body meeting will be satisfied if 20% of the total number of members are present. In the event such a

quorum is not satisfied the meeting be reconvened within a week for which no quorum will be necessary.

- 7.4 Agenda of the General Body meeting: Items sponsored by the Executive Committee shall form the agenda of the general body meeting. Retired members of the Forum can also send agenda items for consideration of the General Body.
- 7.5 Circulation of Agenda :Agenda for an extraordinary/ordinary General Body meeting shall be circulated to the members 10 days before the date of holding of the meeting. Any item not included in the agenda except amendments to the rules and regulations of the Forum can be taken up with the permission of the Chair.
- 7.6 Adjournment of meetings : Any extraordinary/ordinary General Body meeting can be adjourned only with the permission of a simple majority of members present.
- 7.7 The President of the Forum shall preside; in his/her absence the Vice-President shall conduct the meeting. In absence of both of them one of the members present in the meeting may be elected to preside.

8.0 Duties, Powers of General Body

- 8.1 To elect, suspend or remove the office bearers of the Forum.
- 8.2 To receive from the Executive Committee report of the working of the Forum for the preceding year (or for any interim period) together with receipt and expenditure, assets and liabilities and to consider the same.
- 8.3 To amend the rules and regulations of the Forum.
Such amendments to be passed shall require a majority vote of not less than 2/3 of the members of the Forum.

8.4 The Forum will take up only matters of welfare relating to the faculty as a whole, and will bring to the notice of the authorities individual cases only in the event of violation of statutes and rules of IIT Roorkee.

9.0 Election of Office Bearers of the Forum

9.1 Office Bearers of the Forum (President, Vice-President, Secretary and Treasurer) will be elected only from amongst the members of the faculty forum who have to be regular employees of IIT Roorkee.

9.2 Elections will be held at a special meeting of the electorate called for the purpose some time in April/May. Such a meeting would be valid if at least 25% of the total membership of the Forum cast their vote. The term of an Executive Committee will be for two academic years (June 01 to May 31). If for any unavoidable reasons, the General Body Meeting for the purpose of election could not be held at a suitable time within the term of two years, the office bearers of the existing committee shall continue to hold the office till the new election is held. Such an election shall have be held within a period of 27 months from the previous election. However, the term of an Executive Committee, even if its formation has been delayed, will still expire on May 31 as due.

9.3 No office-bearer shall hold the same office for more than two terms consecutively.

9.4 Election of Office Bearers will be conducted by secret ballot. The Electorate will be all members of the Faculty Forum.

9.5 The election shall be conducted by a Returning Officer to be appointed by the outgoing Executive Committee of the Forum. The Returning Officer must be a member of the Forum and shall not be a contestant for any of the elective offices.

9.6 Nominations for the various posts duly proposed and seconded by members of the Forum shall be invited by the Returning Officer in advance of the elections.

9.7 To be declared elected a candidate for the position of a Office Bearer of the Forum must secure highest number of votes polled for any particular position. In case of a tie i.e. if for any position the number of votes secured by two or more candidates are equal, the candidate with highest seniority as per IIT R record shall be declared elected.

9.8 If any position falls vacant in the midst of the tenure of an Executive Committee, the situation so created will be duly examined and necessary steps will be taken by the Executive Committee.

9.9 In case of any dispute at the time of election, the ruling of the Returning Officer shall be final and binding.

10.0 Election of five members on the Executive Committee

Nominations for five members on the Executive Committee of the Forum duly proposed and seconded shall be invited by the returning Officer and elections will held at the same meeting of the General Body which is called for election of office bearers of the Forum.

11.0 Meetings of the Executive Committee

11.1 The meeting of the committee shall be held once in a month or even at a shorter interval when necessary and may be called by the Secretary. The secretary may also convene a meeting on receipt of requisition from four of the elected members of the Executive Committee. Such a meeting should be convened within 72 hours of receipt of the requisition.

11.2 Any item for the agenda of the Executive Committee meetings may be proposed by an elected member of the

executive committee in writing atleast 48 hours before the meeting is held.

- 11.3 Any executive committee meeting can be adjourned only if the majority of the members present so desire.
- 11.4 The quorum for a meeting of the Executive Committee will be considered satisfied if four of the elected members (including office bearers) are present at any meeting.
- 11.5 All decisions of the Executive Committee shall be taken by simple majority.
- 11.6 The minutes of an Executive Committee shall be made available to the members of the Executive Committee within 10 days of the meeting. These minutes are to be confirmed in the subsequent meeting.
- 11.7 The minutes of the meeting will be considered confirmed only after the President has signed the same.

12.0 Functions of the Executive Committee

- 12.1 Normal functions such as maintenance of proper record of the minutes of all meetings, accounts, correspondence shall be discharged by the Executive Committee. Specific functions may be assigned to the Executive Committee by the General Body.
- 12.2 Normally the President of the Forum shall represent the Forum. However, on any particular issue the Executive Committee may decide on who shall be the spokesperson of the Forum

13.0 Functions of the Office Bearers of the Forum

13.1 President

The President shall preside over the Executive Committee and General Body meetings of the Forum. In the event of a tie on

any issue being voted by the Executive Committee or the general body of the Forum, the President will have a casting vote.

13.2 Vice-President

The Vice-President will preside over Executive Committee and General Body meetings in the absence of the President and perform such functions as delegated to him by the Executive Committee or the General Body.

13.3 Secretary

The secretary shall call all meetings, maintain all correspondence, records and minutes. He/She shall circulate agenda and minutes of all the meetings and place correspondence and reports before the Executive Committee whenever required.

13.4 Treasurer

The Treasurer shall have the responsibility of maintaining accounts and presenting annual statement of accounts at the general body meeting. He/She shall also perform the functions of the Secretary in his/her absence. He/She shall also operate the Forum's accounts jointly with the Secretary.

14.0 Funds

- 14.1 Each member will pay a monthly subscription in a manner determined by the rules.
- 14.2 The Executive Committee may raise additional funds as may be required for any specific purpose.
- 14.3 For any individual item the Secretary will be empowered to spend up to Rs. 2500.00, exceeding which prior approval of the President will be necessary.
- 14.4 The Annual Budget of the association shall be framed by the Executive Committee and approved by the General Body at

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the Budget Meeting. If the Budget meeting is not held due to want of quorum, the budget as framed by the Executive Committee may be certified by the President for the purpose of incurring expenditure on different activities.

- 14.5 The Executive Committee may re-appropriate funds from one head to another up to 20% of an individual item of expenditure within the total sanctioned Budget.
- 14.6 The annual accounts shall be presented to the General Body at its annual General Meeting by the Treasurer as a representative of the Executive Committee.
- 14.7 A Chartered Accountant will audit the accounts of the Forum. His report shall be placed before the Executive Committee and thereafter the same will be reported to the General Body with necessary replies.

15.0 Suits by and against the Forum

The forum shall sue or be sued in the name of the President or as determined by the Executive Committee.

16.0 Enforcement of Judgment against the Society

Any judgment issued against a person or Office Bearer named on behalf of the Forum shall be enforceable only against the property of the Forum and not against the property (movable or immovable) or against the body of such person or Office Bearer. Applications for execution of a judgment against a person or Office Bearer named on behalf of the Forum shall state that the judgment is only enforceable against the property of the Forum.

17.0 Provision for dissolution of the Forum

- 17.1 In the event a considerable opinion towards dissolution of the Forum arises an extraordinary general body meeting shall be convened for the sole purpose of a discussion of dissolution.

17.2 The Forum shall stand dissolved if atleast 3/5 of the members of the Forum present at the special extraordinary general body meeting called for this purpose shall determine to do so. For such a meeting the quorum will be 80% of the members of the Forum.

17.3 Any property held by the Forum after settling of liabilities shall be disposed off in a manner prescribed by the Societies Registration Act (1869).

17.4 In addition to the above rules and regulations of the Forum, "The Societies Registered Act 1860 as modified upto the date of registration" will also be applicable.