

**अभिशासक परिषद्
की तीसवीं बैठक का कार्यवृत्त**

**MINUTES OF THE 30TH MEETING
OF THE BOARD OF GOVERNORS**

19 जनवरी 2011

19TH JANUARY 2011



**भारतीय प्रौद्योगिकी संस्थान रुड़की
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
रुड़की — 247 667 (भारत)
ROORKEE - 247 667 (INDIA)**



प्रशान्त गर्ग
उप कुलसचिव
Prashant Garg
Deputy Registrar

भारतीय प्रौद्योगिकी संस्थान रुड़की

(पूर्व रुड़की विश्वविद्यालय)

रुड़की - 247 667, उत्तरांचल, भारत

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(Formerly University of Roorkee)

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No.IITR/MS/30th BOG/ 4673
Dated 18th March 2011

All Members of the Board of Governors
Indian Institute of Technology Roorkee

Sub: Minutes of the 30th Meeting of the Board of Governors of the Indian Institute of Technology Roorkee held on 19th January 2011.

Kindly find enclosed the minutes of the 30th Meeting of the Board of Governors of the Institute, which have been duly approved by the Chairman, Board of Governors.

It is requested that comments, if any, on the above referred minutes may kindly be sent to the undersigned within 15 days. If no comments are received within this period, it would be presumed that you agree with the minutes as recorded, and action may be initiated to implement the same.

Encl: As above

Offtg. Registrar
& Secretary, Board of Governors

To:

1. Shri Ashok Bhatnagar
Chairman, Board of Governors, IIT Roorkee
SF 117, Hauz Khas Apartments
Aurobindo Marg,
New Delhi-110016
2. Prof. S.C. Saxena
Director
Indian Institute of Technology, Roorkee
3. Dr. Vinod Bhakuni
Dy. Director & Head
Molecular & Structural Biology Division
Central Drug Research Institute
Chattar Manzil, PO Box 173
Lucknow-226 001 (Uttar Pradesh)
4. Er. M.P. Gupta
Director, Technical Education Haryana
Bays No.7-12, Sector-4
Panchkula (Haryana)

5. Shri Amit Khare, IAS
Jt. Secretary (ICC), Govt. of India
Ministry of Human Resource Development
Department of Secondary & Higher Education
Shastri Bhawan,
New Delhi - 110 001
6. Dr. D.V. Singh
C-14D, MIG Flats
Vatika Apartments
Mayapuri, New Delhi 110 064
7. Shri Sirajuddin Qureshi
Managing Director,
Hind Agro Industries Ltd.
B-3, Friends Colony (West)
Main Mathura Road,
New Delhi - 110 065
8. Prof. S.A. Abbasi
Sr. Professor and Coordinator
Centre for Pollution Control & Energy Technology
Pondicherry University, Kalapet,
Puducherry - 605014
9. Prof. I.M. Mishra
Department of Chemical Engineering
Indian Institute of Technology, Roorkee
10. Prof. D.K. Paul
Department of Earthquake Engineering
Indian Institute of Technology Roorkee
11. Prof. H.K. Verma
Dy. Director
Indian Institute of Technology Roorkee
Special Invitee
12. Prof. H.O. Gupta
Dean of Faculty Affairs
Indian Institute of Technology Roorkee
Special Invitee
13. Lt. Col. (Retd.) A.K. Srivastava
Indian Institute of Technology Roorkee
Registrar
Secretary

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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

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Minutes of the 30th Meeting of the Board of Governors held on 19th January 2011 at 12.00 noon at Ghaziabad.

The following were present:

1. Shri Ashok Bhatnagar	Chairman
2. Prof. S.C. Saxena, Director, IIT Roorkee	Member
3. Dr. Vinod Bhakuni, Lucknow	Member
4. Er. M.P.Gupta, Haryana	Member
5. Shri Amit Khare, IAS, JS (ICC), MHRD, New Delhi	Member
6. Prof. S.A. Abbasi, Pondicherry University	Member
7. Dr. D.V. Singh, New Delhi	Member
8. Prof. I.M. Mishra, IIT Roorkee	Member
9. Prof. D.K. Paul, IIT Roorkee	Member
10. Prof. H.K. Verma, Dy. Director, IIT Roorkee	Permanent Invitee
11. Prof. H.O.Gupta, Dean of Faculty Affairs	Special Invitee
12. Lt. Col. (Retd.) A.K. Srivastava, Registrar	Secretary

Due to pre-occupation Shri Sirajuddin Qureshi, New Delhi could not attend the meeting.

At the outset, the Chairman welcomed the members to the 30th Meeting of the Board of Governors.

The agenda was then taken up.

PROCEDURAL

Item No. 30.1.1: To confirm the minutes of the 28th Meeting of the Board of Governors held on 26.8.2010 and 29th meeting held on 12.11.2010, respectively.

The minutes of the 28th meeting of the Board of Governors held on 26.8.2010 and 29th meeting held on 12.11.2010 respectively, were confirmed.

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Item No. 30.1.2: To receive a report of actions taken on the minutes of the 28th Meeting of the Board of Governors held on 26.8.2010 and the 29th meeting held on 12.11.2010, respectively.

The position of action taken on the matters as reported was noted.

Item No.30.1.3: To receive a report of the Director on the significant developments/issues since the 28th meeting of the Board held on 26.8.2010.

The Board noted the Director's Report, which was tabled.

MATTERS DISCUSSED/RECOMMENDED BY THE STATUTORY BODIES/ COMMITTEES.

NIL

MATTERS FOR POLICY DECISION

NIL

ADMINISTRATIVE MATTERS:

Item No.30.4.1: To consider the Budget proposals of the Institute for the Financial Year 2011-12.

The Finance Committee had considered the issue in its meeting held on 19th January 2011 vide item No.25.3. 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/01/2011: RESOLVED THAT the under mentioned Budget proposals of the Institute for the financial year 2011-12 as given at **Appendix 'A'** be approved:

1. Budget proposals for expenditure under Plan Grant (Normal)
2. Budget proposals for expenditure under Plan Grant (OSC)
3. Budget proposals for expenditure under Non Plan Grant.

Item No. 30.4.2: To consider the action to be taken on the report of the Enquiry Conducted against Dr. Kamal Jain, Associate Professor in the Department of Civil Engineering for the violation of Rule 3(1) of the Conduct Rules of the Institute.

RESOLUTION NO.BG/02/2011: RESOLVED THAT a copy of the enquiry committee's report should be furnished to Dr. Kamal Jain through Head, Civil Engineering Department. The reply of Dr. Kamal Jain should reach on or before 15th February 2011. On receipt of a reply from Dr. Kamal Jain, the matter be placed before the Board alongwith the disciplinary proceedings and Dr. Kamal Jain's representation, if any, for consideration.

Item No.30.4.3: To consider the action to be taken on the charges levelled against Dr. Ashok Kumar Ahuja, Professor in the Department of Civil Engineering of the Institute for violation of Conduct Rules 3(2) and 3(3)

The Board perused the Memorandum of Charge No.Estt(A)/60/E-4353 dated 8.2.2010 issued to Professor Ashok Kumar Ahuja, under Rule 14 of the Central Civil Services (Classification, Control and Appeal) Rules, 1965, for violating Rule 3(2) and 3(3) of the Conduct Rules of the Institute and noted that the under-mentioned charges had been levelled against Professor Ashok Kumar Ahuja:

1. On 25.09.2009 Dr. Ashok Kumar Ahuja, during the submission of tutorial Sheet No.5 for the course CE-391: Theory of Structures had abused Mr. Sanat Saurav Rath, a student of the Bachelor of Architecture course III year, for not submitting his approved leave application with respect to his absence from the tutorial class for the same course, on 18.09.2009.
2. Dr. Ashok Kumar Ahuja had abused Mr. Sanat Saurav Rath on 25.9.2009, by saying "You are not sorry. You are bastard etc." and also made accusations against the father of Mr. Sanat Saurav Rath, by stating that he did not teach his son anything, and that he did not have just one father because he was born in a brothel or words to that effect.
3. On 25.9.2009 Dr. Ashok Kumar Ahuja had also made a very derogatory remark about the mother of

Mr. Sanat Saurav Rath by saying (or meaning) that his mother was a *randi* (i.e. a prostitute) or words to that effect.

4. On 25.9.2009 Dr. Ashok Kumar Ahuja had also challenged the Chief administrative authority of the Institute, by stating that Mr. Sanat Saurav Rath could go and complain about the said incident to the Director, and that Dr. Ashok Kumar Ahuja would see what the Director could do to him about the same.
5. Dr. Ashok Kumar Ahuja had also debarred Mr. Sanat Saurav Rath from attending the remaining tutorial classes of the Course CE-391: Theory of Structures.

The Board also perused the reply of Prof. Ashok Kumar Ahuja dated 26.2.2010 and noted that Dr. Ashok Kumar Ahuja had admitted the imputations of misconduct listed at Points 1 to 3 above. The Enquiry Committee conducted the enquiry about Point Nos. 4 & 5 of the Charge Sheet Memorandum which were denied by Prof. Ashok Kumar Ahuja. The charge levelled at Point No. 4 was established by the enquiry committee, but Point No. 5 was not established. Thus, Professor Ashok Kumar Ahuja violated Conduct Rule 3(2) & 3(3):

Conduct Rule 3 (2): An employee should at all times be courteous in his dealing with other employees, students and members of the public.

Conduct Rule 3(3): No employee shall indulge in verbal quarrel and/or physical fisticuffs or violent activities with any other employee or a student or a group of students/employees or any other person.

After going through Prof. Ahuja's reply and noting the fact that he had not tendered an unequivocal apology for his misbehaviour, but had tried to take refuge under the misplaced premise that Mr. Sanat Saurav Rath had repeatedly lied to him, about the prior sanction of his leave, whereas a simple query to the Head, Department of Architecture & Planning would have established the veracity or otherwise of Mr. Sanat Saurav Rath's statement, thereby avoiding the sordid incident that followed, in which Dr. Ashok Kumar Ahuja used the most reprehensible language that any individual can use for another i.e. questioning the legitimacy of Mr. Rath's

parentage and, in the presence of the whole class, going as far as to state that Mr. Rath's mother was a woman of easy virtue, and that he, Mr. Rath, was born in a brothel. Such conduct is most shameful and unbecoming of a gentleman, which a teacher is expected to be. With these observations, the Board resolved as under:

RESOLUTION NO.BG/03/2011: RESOLVED THAT Professor Ashok Kumar Ahuja, Department of Civil Engineering, is awarded the penalty of reduction to a lower stage in the time-scale of pay of Rupees 37,400-67,000 with the academic grade pay of Rupees 10,500/-, by one stage, for a period of one year with effect from 19th January 2011, in that the pay of Professor Ashok Kumar Ahuja will be reduced by one stage from Rupees 62,070/- to Rupees 60,260/-, for a period of one year with effect from 19th January 2011. It was further resolved, that Professor Ashok Kumar Ahuja will not earn increments of pay during the period of reduction and that on the expiry of this period, the reduction will **not have the effect of postponing his future increments of pay.**

Item No. 30.4.4: To consider the representation dated 25.12.2010 of Mr. Bharat Jhunhunwala, Lakshmoli, PO Maletha, Kiriti Nagar, U.K. regarding study of Cumulative Impacts of Hydropower Projects on Ganga River by the Alternate Hydro Energy Centre, IIT Roorkee.

The members of the Board of Governors were requested to send their comments/observations on the representation dated 25th December 2010 of Mr. Bharat Jhunhunwala, which, when received, would be discussed in the subsequent meeting of the Board.

Item No.30.4.5: To consider the issue of grant of Special Allowance to Dy. Director, Deans, Wardens, Associate Wardens and Assistant Wardens.

The Finance Committee had considered the issue in its meeting held on 19th January 2011 vide item No.25.5. 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/04/2011: RESOLVED THAT the Special Allowance to Dy. Director, Deans, Wardens, Associate Wardens and Assistant Wardens in the light of

recent MHRD Letter No.1-1/2010-TS-I dated 23rd September 2010 be approved as under:

Position	Revised special allowance
Dy. Director	Rs.4,000/- p.m.
Deans	Rs.3,500/- p.m.
Wardens	Rs.2,500/- p.m.
Associate/Assistant Wardens	Rs.2,000/- p.m.

FURTHER RESOLVED THAT the following special allowances in addition to the honorarium/special allowances granted by the MHRD be approved:

Position	Special Allowance
Associate Deans	Rs.3000/- p.m.
Chief Wardens	Rs.2500/- p.m.

STILL FURTHER RESOLVED that in the light of the MHRD letter referred to above, the Statutes 10(1) and 11(4) of the Institute may be modified as under:

The last sentence of the Statute 10(1) may be read as:

However, the Deputy Director shall be entitled to additional monetary benefit as may be prescribed/ approved by the Government of India, from time to time.

The Statute 11(4) may be read as:

The Deans and Associate Deans shall be entitled to additional monetary benefit as may be prescribed/ approved by the Government of India, from time to time.

Item No.30.4.6: To consider the proposal for creation of "IIT Roorkee-Jaiprakash Sewa Sansthan Fund".

The Board noted the views expressed by the members of the Board of Governors on the floor and opined that the Institute should re-examine the proposal.


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Item No. 30.4.7: To consider the minimum qualification and experience for the post of Deputy Registrars and Assistant Registrars.

RESOLUTION NO.BG/05/2011: RESOLVED THAT the minimum qualifications and experience requirement for direct recruitment for the post of Deputy Registrars and Assistant Registrars be approved as under:

(a) Deputy Registrar (Administration) (on consolidated emoluments)

Minimum Qualifications and Experience:

A Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7 point scale; along with-

- (i) Nine year's of experience as Assistant Professor in the AGP of Rs.6000 and above with experience in educational administration, or
- (ii) Comparable experience in research Establishment and /or other Institutions of higher Education, or
- (iii) 5 years of administrative experience as Assistant Registrar or in an equivalent post."

Desirable:

Relevant experience in Government/Semi Government Organizations/ Educational Institutions

(b) Deputy Registrar (Audit & Accounts) (on consolidated emoluments)

Minimum Qualifications and Experience:

A Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7 point scale; along with-

- (i) Nine year's of experience as Assistant Professor in the AGP of Rs.6000 and above with experience in educational administration, or


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(ii) Comparable experience in research Establishment and /or other Institutions of higher Education, or

(iii) 5 years of administrative experience as Assistant Registrar or in an equivalent post."

Desirable:

Relevant experience in Government/Semi Government Organizations/ Educational Institutions

(c) Assistant Registrar (Administration) (On consolidated emoluments)

Minimum Qualifications and Experience:

A Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7pt scale along with a good academic record.

Desirable:

Relevant experience in Government/Semi Government Organizations/ Educational Institutions

(d) Assistant Registrar (Audit & Accounts) (On consolidated emoluments)

Minimum Qualifications and Experience:

A Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7pt scale along with a good academic record.

Desirable:

Relevant experience in Government/Semi Government Organizations/ Educational Institutions

The case for regularization of these temporary posts created vide BoG resolution No.BG/40/2010 in the meeting of BoG dated 26.8.2010 be sent to the MHRD, Government of India for approval.


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Item No.30.4.8: To consider approving the criteria for movement of eligible Professor from PB-4 to HAG scale of Rs.67000-79000.

RESOLUTION NO.BG/06/2011: RESOLVED AS UNDER

- (a) The criteria and procedure for movement of Professors from PB-4 to HAG scale of Rs.67,000-79,000, as given at **Appendix 'B'**, be approved.
- (b) The under-mentioned assessment criteria be used for giving the HAG scale:

No. of Years of service as a Professor (y)	Minimum Average of Faculty Performance Appraisal score for the proceeding 3 years
$y \geq 15$	2.50
$12 \leq y < 15$	3.00
$09 \leq y < 12$	3.75
$06 \leq y < 09$	4.50

NOTE: \leq = Less than or equal to.
 \geq = Greater than or equal to.

- (c) The HAG scale be extended to the under-mentioned 11 Professors who were given AGP of Rs.12,000/- vide Office Memorandum No.Estt.(A)/288/E-4754(6th CPC) dated 18th May 2010:

1. Prof. H.K. Verma, Electrical Engg. Department
2. Prof. Satya Prakash, Met. & Mat. Engg. Deptt.
3. Prof. H.O. Gupta, Electrical Engg. Department
4. Prof. R.C. Joshi, Electronics & Computer Engg. Deptt.
5. Prof. A.K. Awasthi, Earth Sciences Department
6. Prof. D.K. Paul, Earthquake Engineering Deptt.
7. Prof. Ranvir Singh, Hydrology Department
8. Prof. J.D. Sharma, Electrical Engineering Deptt.
9. Prof. I.M. Mishra, Chemical Engineering Deptt.
10. Prof. S.C. Jain, Mechanical & Industrial Engg. Deptt.
11. Prof. Subrat Ray, Met. & Mat. Engg. Deptt.

Item No. 30.4.9: To consider sanctioning 03 posts of Asstt. Executive Engineer on contract basis and approval for filling up two vacant regular post of Asstt. Executive Engineer.

The Finance Committee had considered the issue in its meeting held on 19th January 2011 vide item No.25.6. 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/07/2011: RESOLVED THAT the under-mentioned additional manpower agreed upon by the over sight committee in view of the capacity expansion for the implementation of the OBC reservation policy for the Estate & Works be approved on contract basis with appropriate fixed emoluments, in Group 'A':

Post	Main campus	Saharanpur campus	Total
Assistant Executive Engineer (Civil)	2	1	3

The case for regularization for these posts may be sent to the MHRD for approval. A job analysis be carried out for the respective posts and the description of duties of the Assistant Executive Engineers should also be specified.

FURTHER RESOLVED THAT the vacant regular posts of Assistant Executive Engineer (Electrical) and Assistant Executive Engineer (Civil), Group 'A' posts in PB-3, GP-5400, be filled up through open advertisement.

Item No.30.5.1: 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, Board of Governors on behalf of the Board.

RESOLUTION NO.BG/08/2011: RESOLVED THAT the approvals accorded by the Chairman, Board of Governors on behalf of the Board are ratified:

- (i) Signing of MoUs between (a) IIT Roorkee and Linkoping University (LiU), Sweden, and (b) IIT Roorkee and Army Technology Centre, HQ Technical Group EME, Directorate General of EME. **(Appendix 'C')**
- (ii) Renewal of MoU between The University of Applied Sciences, Dresden, Germany and Indian Institute of Technology Roorkee **(Appendix 'D')**


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- (iii) Signing of MoU between the National Institute for Materials Sciences (NIMS), Japan and Indian Institute of Technology Roorkee **(Appendix 'E')**
- (iv) MoU between the Indian Institute of Technology Roorkee and Hochschule für Technik und Wirtschaft Dresden (FH) University of Applied Science **(Appendix 'F')**.
- (v) Signing of MoU between the Cardiff University, U.K. and Indian Institute of Technology Roorkee **(Appendix 'G')**.
- (vi) Nomination of Board Nominees for the Selection Committee of Administration Group 'A' posts.
- (vii) Re-employment of 5 faculty members upto 30.6.2011.
- (viii) Extension of Dr. Chetna Tiwari, Medical Officer on Contract for two years w.e.f. 10.9.2010 to 9.9.2012.
- (ix) Up-gradation of Professors from AGP Rs.10500/- to AGP Rs.12000/-.
- (x) Introduction of MACP to the non-faculty Group 'A'.
- (xi) HAG Pay Scale of Rs.67000-79000 without any grade pay in place of AGP of Rs.12000/- pm.
- (xii) Voluntary Retirement of Dr. V.P. Singh, Professor, DPT w.e.f. 24.12.2010.
- (xiii) Enhancement of emoluments of three Medical Officers (on contract) in the Institute Hospital between range of Rs.30,000/- to Rs.45,000/-
- (xiv) Amendments in clause 3(1) of Vacation and Leave Rules by deleting the words, "which may be availed by the employees involved in teaching" making the mid-semester break admissible only for the students of Bachelor's and Master's Programme and not as vacation leave for faculty members.
- (xv) Re-employment of 08 faculty members upto 30.6.2011.


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- (xvi) Resignation of Dr. P.S. Mishra, Emeritus Fellow, Metallurgical & Material Engineering Department w.e.f. 31.12.2010.
- (xvii) Extension of contractual appointment for one year of Dr. (Mrs.) Shaily Tomer, Assistant Professor, Department of Biotechnology w.e.f. 07.02.2011.
- (xviii) Extension of appointment of Dr. Manoj Kumar Jain, Medical Officer (on contract), DPT, Saharanpur Campus for two years w.e.f. 06.12.2010 to 05.12.2012.
- (xix) Recommendations of the Selection Committee held on 13.08.2010 for the post of Technical Officer (level-I, II & III) in the Institute.
- (xx) Recommendations of the Selection Committee held on 23.8.2010 for the post of Assistant Executive Engineer (Civil) (on Deputation) in the Construction Division.
- (xxi) Recommendations of the Selection Committee held on 20.9.2010 for the post of Assistant Registrar (Administration) (on contract).
- (xxii) Recommendations of the Selection Committee held on 20.9.2010 for the post of Deputy Registrar (Accounts & Audit).
- (xxiii) Recommendations of the Selection Committee held on 21.9.2010 for the post of Assistant Professor in the Department of Mathematics and the Department of Paper Technology, Saharanpur Campus.
- (xxiv) Recommendations of the Selection Committee held on 21.9.2010 for the post of Assistant Professor (on contract) in the Department of Mathematics and the Department of Paper Technology, Saharanpur Campus.
- (xxv) Recommendations of the Selection Committee held on 21.9.2010 for the post of Assistant Professor in the Department of Electronics & Computer Engineering.


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- (xxvi) Recommendations of the Selection Committee held on 21.9.2010 for the post of Assistant professor in the Department of Management Studies.
- (xxvii) Recommendations of the Selection Committee held on 4.10.2010 for the post of Assistant Professor in the Department of Earthquake Engineering.
- (xxviii) Recommendations of the Selection Committee held on 4.10.2010 for the post of Assistant Professor (on contract) in the Department of Earthquake Engineering.
- (xxix) Recommendations of the Selection Committee held on 4.10.2010 for the post of Assistant Professor in the Alternate Hydro Energy Centre.
- (xxx) Recommendations of the Selection Committee held on 8.10.2010 for the post of Assistant Professor (on contract) in the Department of Humanities & Social Sciences and the Department of Paper Technology, Saharanpur Campus.
- (xxxii) Recommendations of the Selection Committee held on 25.10.2010 for the post of Assistant Professor (on contract) in the Department of Mechanical & Industrial Engineering.
- (xxxiii) Recommendations of the Selection Committee held on 25.10.2010 for the post of Assistant Professor in the Department of Mechanical & Industrial Engineering.
- (xxxiv) Recommendations of the Selection Committee held on 27.10.2010 for the post of Assistant Professor in the Department of Civil Engineering and the Department of Paper Technology, Saharanpur Campus.
- (xxxv) Recommendations of the Selection Committee held on 27.10.2010 for the post of Assistant Professor (on contract) in the Department of Civil Engineering and the Department of Paper Technology, Saharanpur Campus.


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- (xxxvi) Recommendations of the Selection Committee held on 27.10.2010 for the post of Assistant Professor (on contract) in the Department of Management Studies.
- (xxxvii) Recommendations of the Selection Committee held on 27.10.2010 for the post of Assistant Professor (on contract) in the Department of Electronics & Computer Engineering and the Centre of Nanotechnology.
- (xxxviii) Recommendations of the Selection Committee held on 7.11.2010 for the post of Assistant Professor (on contract) in the Department of Physics, Department of Paper Technology, Saharanpur Campus and the Centre of Nanotechnology.
- (xxxix) Recommendations of the Selection Committee held on 07.12.2010 for the post of Assistant Professor in the Department of Physics, Department of Paper Technology, Saharanpur Campus and the Centre of Nanotechnology.
- (xl) Recommendations of the Selection Committee held on 20.12.2010 for the post of Assistant Professor in the Department of Chemical Engineering, and the Department of Paper Technology, Saharanpur Campus.
- (xli) Recommendations of the Selection Committee held on 20.12.2010 for the post of Assistant Professor (on contract) in the Department of Chemical Engineering and the Department of Paper Technology, Saharanpur Campus.
- (xlii) Recommendations of the Selection Committee held on 23.12.2010 for the post of Assistant Professor in the Department of Metallurgical & Materials Engineering and the Centre of Nanotechnology.
- (xliii) Recommendations of the Selection Committee held on 23.12.2010 for the post of Assistant Professor (on contract) in the Department of Metallurgical & Materials Engineering and the Centre of Nanotechnology.
- (xliv) Nomination of the under-mentioned three eminent educationists in the fields of Engineering, Science & Humanities, who are not employees of the Institute,

to the Senate for a period of two years w.e.f. 01.01.2011 to 31.12.2012.

1. Prof. Vijay K. Jain, Department of Mechanical Engineering, IIT Kanpur.
2. Prof. Karmeshu, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
3. Prof. Anu Singh Lather, Dean, University School of Management Studies, GGSIP University, Delhi

(xlv) Nomination of the under-mentioned five members on the Building & Works Committee for a period of two years w.e.f. 1.1.2011 to 31.12.2012:

1. Er. H.K. Upreti, Superintending Engineer, PWD, Haldwani, Uttarakhand.
2. Dy. General Manager, Uttarakhand Power Corporation Ltd, Roorkee.
3. Prof. S.C. Sharma, Department of Mechanical & Industrial Engineering, IIT Roorkee.
4. Prof. S.P. Srivastava, Department of Electrical Engineering, IIT Roorkee.
5. Prof. Pradeep Bhargava, Department of Civil Engineering, IIT Roorkee.

(xlvi) Recommendations of the Selection Committee held on 31.12.2010 for the post of Assistant Professor (on contract) in the Departments of Electrical Engineering, Water Resources Development & Management, and Paper Technology.

(xlvii) Recommendations of the Selection Committee held on 31.12.2010 for the post of Assistant Professor in the Departments of Electrical Engineering, Water Resources Development & Management, and Paper Technology.

(xlviii) Extension of probation period of Dr. Mukesh Bhardwaj, Assistant Professor, Department of Metallurgical & Materials Engineering for a period of six months w.e.f. 18th November 2010.

Item No. 30.5.2: To report certain matters for the Information of the Board of Governors.

RESOLUTION NO.BG/09/2011: RESOLVED THAT the matters, as listed below, were noted and recorded:


18 MAR 2011

to the Senate for a period of two years w.e.f. 01.01.2011 to 31.12.2012.

1. Prof. Vijay K. Jain, Department of Mechanical Engineering, IIT Kanpur.
2. Prof. Karmeshu, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
3. Prof. Anu Singh Lather, Dean, University School of Management Studies, GGSIP University, Delhi

(xlv) Nomination of the under-mentioned five members on the Building & Works Committee for a period of two years w.e.f. 1.1.2011 to 31.12.2012:

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5. Prof. Pradeep Bhargava, Department of Civil Engineering, IIT Roorkee.

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(xlviii) Extension of probation period of Dr. Mukesh Bhardwaj, Assistant Professor, Department of Metallurgical & Materials Engineering for a period of six months w.e.f. 18th November 2010.

Item No. 30.5.2: To report certain matters for the Information of the Board of Governors.

RESOLUTION NO.BG/09/2011: RESOLVED THAT the matters, as listed below, were noted and recorded:


18 MAR 2011

(i) Minutes of the 24th Meeting of the Finance Committee of the Institute held on 26.8.2010.

(ii) Minutes of the 35th & 36th Meeting of the Senate of the Institute held on 08.11.2010 and 13.12.2010/ 27.12.2010, respectively.

(iii) The following appointments were made:

Sl. No.	Name	Designation	Department	Date of Joining
1.	Dr. (Mrs.) Pratibha	Asstt. Professor	Mathematics	24.09.2010
2.	Dr. Akshay Dvivedi	Asstt. Professor	Mechanical & Industrial Engg.	18.11.2010
3.	Dr. Sanjeev Kumar	Asstt. Professor (on Contract)	Mathematics	18.11.2010
4.	Dr. Uday Singh	Asstt. Professor	Mathematics	19.11.2010
5.	Dr. Upadhyay S. Hariharbhai	Asstt. Professor	Mechanical & Industrial Engg.	24.11.2010 (AN)
6.	Dr. Maheshanand	Asstt. Professor	Mathematics	01.12.2010
7.	Dr. G.D. Ransinchung R.N.	Asstt. Professor	Civil Engineering	08.12.2010
8.	Dr. P. Sateesh Kumar	Asstt. Professor	Electronics & Computer Engg.	15.12.2010
9.	Dr. (Ms) Usha Lenka	Asstt. Professor	Management Studies	22.12.2010
10.	Dr. Ravi Shankar Jakka	Asstt. Professor	Earthquake Engineering	22.12.2010
11.	Mr. Khagendra Prasad Upreti	AEE (Civil) (On Deputation)	Estate & Works	01.09.2010
12.	Mr. Gopal Kumar Rastogi	Dy. Registrar (A&A)	Finance & Accounts	23.09.2010
13.	Mr. Vjay Kumar Singh	Asstt. Registrar (On Contract)	Sponsored Research & Industrial Consultancy	13.10.2010

(iv) The following Faculty Members and other staff have superannuated/voluntarily retired/resigned:

Sl. No.	Name	Designation	Department	Date of Superannuation/ Resignation
1.	Dr. Dinesh C. Singhal	Professor	Hydrology	31.08.2010
2.	Dr. G.S. Agarwal	Assoc. Prof.	Mathematics	30.09.2010
3.	Dr. R.S. Khandelwal	Asstt. Prof.	Mechanical & Industrial Engg.	30.09.2010
4.	Dr. G.L. Asawa	Professor	Civil Engg.	30.09.2010
5.	Dr. N.K. Mehta	Professor	Mechanical & Industrial Engg.	31.10.2010
6.	Dr. A.K. Awasthi	Professor	Earth Sciences	30.11.2010

7.	Dr. V.P. Singh	Professor	Paper Technology	24.12.2010 (VRS)
8.	Dr. R. Mitra	Professor	Electronics & Computer Engg.	31.12.2010
9.	Dr. G.C. Kaushal	Professor	Metallurgical & Materials Engg.	31.12.2010
10.	Dr. A.K. Pachauri	Professor	Earth Sc.	31.12.2010
11.	Sri Devadutta Das	Professor	W.R.D. M.	31.12.2010
12.	Dr. Kamlesh Chandra	Assoc. Prof.	Metallurgical & Materials Engg.	31.12.2010
13.	Dr. G. Bhattacharjee	Professor	Chemistry	31.12.2010
14.	Dr. P.S. Mishra	Emeritus Fellow	Metallurgical & Materials Engg.	31.12.2010 (Resigned)

(v) The following Faculty members and other staff have been brought on the regular cadre:

Sl. No.	Name	Designation	Department	Date on Which brought on Regular Cadre
1.	Dr. Rajendra Prasad	Professor	Electrical Engg.	04.08.2010
2.	Dr. Biswarup Das	Professor	Electrical Engg.	04.08.2010
3.	Dr. Radhey Shyam Anand	Professor	Electrical Engg.	04.08.2010
4.	Dr. E. Fernandez	Associate Professor	Electrical Engg.	04.08.2010
5.	Dr. Gopi Natha Pillai	Associate Professor	Electrical Engg.	04.08.2010
6.	Dr. Anindya Jayanta Mishra	Assistant Professor	Humanities & Social Sciences	04.08.2010
7.	Dr. Sumit Ghatak Choudhuri	Assistant Professor	Electrical Engg.	04.08.2010
8.	Dr. Ravi Kumar	Professor	Mechanical & Industrial Engineering	05.09.2010
9.	Dr. D.K. Dwivedi	Associate Professor	Mechanical & Industrial Engineering	04.09.2010
10.	Dr. Andallib Tariq	Assistant Professor	Mechanical & Industrial Engineering	04.09.2010
11.	Dr. Inderdeep Singh	Assistant Professor	Mechanical & Industrial Engineering	04.09.2010
12.	Dr. Zillur Rahman	Associate Professor	Management Studies	04.09.2010
13.	Dr. Anil Kumar Sharma	Associate Professor	Management Studies	04.09.2010
14.	Dr. C.B. Mazumdar	Associate Professor	Chemical Engg.	09.09.2010



15.	Dr. (Mrs.) Shashi	Associate Professor	Chemical Engg.	09.09.2010
16.	Dr. Shishir Sinha	Associate Professor	Chemical Engg.	09.09.2010
17.	Dr. (Mrs.) Ashu Khanna	Assistant Professor	Paper Technology	10.09.2010
18.	Dr.(Mrs) Ila Gupta	Associate Professor	Architecture & Planning	22.09.2010
19.	Dr. Gaurav Raheja	Assistant Professor	Architecture & Planning	22.09.2010
20.	Ms. Tina Pujara	Assistant Professor	Architecture & Planning	22.09.2010
21.	Dr. M.J. Nigam	Professor	Electronics & Computer Engg.	23.09.2010
22.	Mr. Mukesh Kumar	System Programmer	Institute Computer Centre	23.09.2010
23.	Dr. Sanjeev Manhas	Assistant Professor	Electronics & Computer Engg.	24.9.2010
24.	Dr. Anand Bulusu	Assistant Professor	Electronics & Computer Engg.	24.9.2010
25.	Dr. Debashis Ghosh	Associate Professor	Electronics & Computer Engg.	24.9.2010
26.	Dr. Prasenjit Mondal	Assistant Professor	Chemical	25.9.2010
27.	Dr. M.V. Kartikeyen	Professor	Electronics & Computer Engg.	29.9.2010
28.	Dr. Ashok Kumar	Professor	Earthquake Engineering	7.10.2010
29.	Dr.(Mrs) Amita Sinvhal	Professor	Earthquake Engineering	7.10.2010
30.	Dr. Manish Shrikhande	Associate Professor	Earthquake Engineering	7.10.2010
31.	Dr. B.K. Maheshwari	Associate Professor	Earthquake Engineering	7.10.2010
32.	Dr. Pankaj Agarwal	Associate Professor	Earthquake Engineering	7.10.2010
33.	Dr. Surendra Singh	Professor	Metallurgical & Materials Engg.	8.10.2010
34.	Dr. Anjan Sil	Professor	Metallurgical & Materials Engg.	7.10.2010
35.	Dr. Kamlesh Chandra	Professor	Metallurgical & Materials Engg.	7.10.2010
36.	Dr. R. Jayaganthan	Associate Professor	Metallurgical & Materials Engg.	08.10.2010
37.	Dr. B.B.S. Daniel	Associate Professor	Metallurgical & Materials Engg.	07.10.2010
38.	Dr. Vivek Pancholi	Assistant Professor	Metallurgical & Materials Engg.	07.10.2010
39.	Dr. Sanjit Kumar Mishra	Assistant Professor	Paper Technology	22.10.2010
40.	Dr. Manas Mohan Mahapatra	Assistant Professor	Mechanical & Industrial Engg.	28.10.2010

41.	Dr. Jitendra Madan	Assistant Professor	Mechanical & Industrial Engineering	29.10.2010
42.	Dr. Rajan Arora	Assistant Professor	Paper Technology	5.11.2010
43.	Dr. Milli Pant	Assistant Professor	Paper Technology	5.11.2010
44.	Dr.(Mrs.) S. Mukhopadhyay	Professor	Earth Sciences	10.11.2010
45.	Dr. Sandeep Singh	Professor	Earth Sciences	10.11.2010
46.	Dr. Anand Joshi	Associate Professor	Earth Sciences	10.11.2010
47.	Dr.(Mrs.) Rashmi Gaur	Professor	Hum. & So. Sc.	9.11.2010
48.	Dr. Partha Roy	Associate Professor	Biotechnology	10.11.2010
49.	Dr. Vikas Pruthi	Associate Professor	Biotechnology	09.11.2010
50.	Dr.(Mrs) Ranjana Pathania	Assistant Professor	Biotechnology	09.11.2010
51.	Dr. (Mrs.) Maya S Nair	Assistant Professor	Biotechnology	10.11.2010
52.	Dr. S. Rangnekar	Associate Professor	Management Studies	12.11.2010
53.	Dr. Mukesh Kumar Barua	Assistant Professor	Management Studies	03.12.2010
54.	Dr. Mohd. Ashraf Iqbal	Assistant Professor	Civil Engineering	07.12.2010
55.	Dr. A.A. Kazmi	Associate Professor	Civil Engineering	07.12.2010
56.	Dr. Bhola Ram Gurjar	Associate Professor	Civil Engineering	07.12.2010
57.	Dr. Pramod Kumar Gupta	Associate Professor	Civil Engineering	07.12.2010
58.	Dr. (Ms.) Priti Maheshwari	Assistant Professor	Civil Engineering	07.12.2010

Item No. 30.5.3: To report receipt of Audit Certificate for the F.Y. 2009-2010.

The Board noted that the Audit Report and Certified copies of Annual Accounts for the year 2009-2010 were received from the Accountant General (Audit), Uttarakhand and the same were approved by the Chairman, Board of Governors for submitting it to the MHRD (**Appendix 'H'**).

The Board observed that the Internal Audit system of the Institute requires to be suitably strengthened.

The meeting ended with a vote of thanks to the Chair.


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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Budget - Estimate for Normal & OBC Plan Grant
for the Financial Year 2011-12

(Rs. in lacs)

S. No.	Programme	Normal Plan Grant BE 2011-12	OBC Plan Grant BE 201 1-12
1	Development of Laboratory Infrastructure	1405.00	1340.00
2	Library (Books & Journals), Computing, Networking and Multimedia facilities	1050.00	1400.00
3	Building and Works	7466.37	737.24
4	Recurring Expenditure due to increase in intake		2440.00
TOTAL		9921.37	5917.24
GRAND TOTAL (Normal Plan + OBC Plan)		15838.61	


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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Budget - Estimate for Plan Grant
for the Financial Year 2011-12 (Normal Grant)

(Rs. in lacs)

S. No.	Programme	Funds Required-NA
1 (a)	Laboratory Infrastructure for Departments/ Centres	
	Analytical Equipment/ Instruments for 03 Centres of Excellence	150.00
	Academic Departments/ Centres	450.00
	Central Facilities	
	IIC	100.00
	Hospital	15.00
	National facility on Geochronology	10.00
	Educational Technology cell	5.00
	NMR facility upgradation	15.00
	Security	5.00
	EPABX	5.00
	IPR Cell	5.00
	Transportation	10.00
	Training Placement and Industrial Liaison	10.00
	Macromolecular Crystallographic Unit (A Multi Disciplinary Instrument)	15.00
	Student Amenities	200.00
	Sports facilities upgradation	300.00
	Administration	10.00
1 (b)	Post Doctoral Fellowships (including Faculty Project grant)	50.00
1 (c)	Strengthening of Infrastructure (Class room, Audio Visual Aids etc.)	50.00
	Sub Total	1405.00
2	Library Computing, Networking & Multimedia Facilities	
	a. Library : Subscription of Books, Print and e-journals in Science & Technology	150.00
	b. Computing, and Multimedia Facilities	200.00
	c. Office Automation	200.00
	d. Networking in students hostels (old + new)	500.00
	Sub Total	1050.00
3(a)	Building & Works - Ongoing Activities	
	(a) Construction of Technology Block at DPT Saharanpur	982.74
	(b) Multistorey A Category Residences (54 Nos.) (Behind Hill View Appmts.)	393.82
	(c) Solar Water Heating and Lighting System of New Buildings being constructed by NBCC	50.00
	(d) Ground Water Recharge & Drainage System Roorkee Campus (Rs. 961.57 lacs)	721.57
	(e) Ground Water Recharge & Drainage System Saharanpur Campus (Rs. 276.09 lacs)	207.09
	(f) Sewerage System and STP Roorkee Campus (Rs. 2323.00 lacs)	1743.00
	(g) Sewerage System and STP Saharanpur Campus (Rs. 482.83 lacs)	362.83
	Sub Total	4461.05
3(b)	New Proposed Works	
	(a) Extension /Renovation of Academic & Admn. Building	50.00
	(b) Extension /Renovation of Residences	75.00
	(c) Rewiring of Department /Residences in IIT Roorkee	25.00
	(d) Dining Hall Trainee Officers Hostel & C.E.C. (UPRNN)	42.32
	(e) Construction of Multy Activity Centre in IIT Roorkee Campus (NBCC Ltd.)	2213.00
	Sub Total	2405.32
3(c)	Development of Greater Noida Extension Centre of IITR	
	(Activities convention centre, incubation centre, Guest House, Faculty Rooms): work in progress	600.00
		600.00
	Total [3(a), (b) & (c)]	7466.37
	GRAND TOTAL	9921.37



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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Budget - Estimate for Plan Grant
for the Financial Year 2011-12 (OBC)

(Rs. in lacs)

S. No.	Programme	Funds Required-OBC
1	Laboratory Infrastructure for Departments/ Centres	
	(a) Analytical Equipment/ Instruments for 03 Centres of Excellence	120.00
	(b) Academic Departments/ Centres	700.00
	(c) Central Facilities	
	i) IIC	150.00
	ii) Hospital	30.00
	iii) Security	20.00
	iv) Transportation	20.00
	(d) Student Amenities (Mess Equipments for New Hostels etc.)	300.00
	Sub Total	1340.00
2	Library Computing, Networking & Multimedia Facilities	
	(a) Library : Subscription of Books, Print and e-journals in Science & Technology	300.00
	(b) Computing, and Multimedia Facilities	250.00
	(c) Networking in New Hostels / Lecture Complex	550.00
	(d) Networking (Switches + Fibre laying in Roorkee + Saharanpur Campus)	300.00
	Sub Total	1400.00
3	Building & Works	
	(A) On Going Works	
	(a) Construction of Multistoreyed A-category Residences (56 Nos.)	146.60
	(b) Toilets & other facilities for Physically disabled students in Departments / Centres	25.00
	(c) Electric Substation and DG Sets in New Buildings being constructed by NBCC	120.64
	(d) New Sub-station /DG Set/HT & LT cabling in Roorkee Campus	100.00
	(e) Const. of Boys Hoset near Ganga Bhawan (CPWD) pending	50.00
	Sub Total	442.24
	(B) New Proposed Works	
	(a) New Electric-Substation, cabling & panel etc.at SRE Campus	40.00
	(b) Tube well/pipe line in Roorkee/ Saharanpur Campus.	50.00
	(c) Furniture for Rajeev Bhawan (Rooms and Mess)	65.00
	(d) Extension/Renovation of Hostels	65.00
	(e) U/G Cable & Panel for Department	75.00
	Sub Total	295.00
	Total (3A+B)	737.24
4	Recurring Expenditure due to increase in intake	2440.00
	TOTAL	5917.24

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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
BUDGET ESTIMATES
Non Plan Grant 2011-12

Rupees in lacs

S. No.	Programme	Budget estimates for the Financial Year 2011-12
1	Establishment	
	(i) Pay & Allowances	10067.00
	(ii) Pension & Gratuity	3000.00
	(iii) Medical Expenses, Security Services, Mess Staff, LTC etc.	700.00
	(iv) Telephones, Repairs of Office Equipment, Uniforms & Liveries, Legal Expenses, Faculty Perks, Hospitality, Transport, Contingencies etc.	850.00
	Sub Total	14617.00
2	Academic & Educational	
	(i) Department Operating Cost	700.00
	(ii) Scholarships	3000.00
	(iii) Research Projects, Students Amenities, SC/ST students fee, Examinations, Participation in National / International Conferences, Publications, Convocation	352.00
	(iv) Computer Support Services, National Facilities, AMC for sophisticated instruments.	220.00
	Sub Total	4272.00
3	Estate Maintenance	
	(i) Maintenance	
	• Civil maintenance including Horticulture and Sanitation	770.00
	• Electric and Water Supply Maintenance	244.00
	(ii) Electricity and Fuel	950.00
	Sub Total	1964.00
	Grand Total	20853.00



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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
BUDGET ESTIMATES FOR NON-PLAN GRANT FOR FINANCIAL YEAR 2011-12

(Rs. In lacs)

S.No	A/c head	Grant No.	BE- 2011-12
1	Pay & Allowances	MHR02-11-208	10067.00
2	OTA & Honorarium	MHR02-12-200	3.00
3	Travelling Allowance	MHR02-13-200	100.00
4	LTC	MHR02-14-200	100.00
5	Children Education Allowance	MHR02-15-208	50.00
6	Fund Contribution	MHR02-16-208	2.50
7	Pension & Gratuity	MHR02-17-208	3000.00
8	Security & Other Agencies	MHR02-19-210	145.00
9	Mess Subsidy	MHR02-31-204	135.00
10	Medical	MHR02-20-212	300.00
11	HRD	MHR02-21-200	5.00
12	Membership Fee	MHR02-37-220	2.50
13	Transfer to IPT	MHR02-69-116	515.00
14	Advertisement	MHR02-56-220	35.00
15	PARLIMENTARYCOMM	MHR02-66-200	2.00
16	Transport /Vehicle Maintenance & Opt	MHR02-47-214	8.00
17	Legal Expenses	MHR02-48-220	4.00
18	Postage & Telegram	MHR02-49-220	4.00
19	Uniform & Liveries	MHR02-50-220	10.00
20	Entertainment	MHR02-51-207	4.00
21	Audit Expenses	MHR02-53-208	10.00
22	Telephones	MHR02-54-215	35.00
23	Contingencies	MHR02-45-200	50.00
24	Staff Welfare - Faculty Perks	MHR02-46-200	30.00
	SUB TOTAL		14617.00
25	Short Term Academic Visits	MHR02-39-200	4.00
26	Library	MHR02-24-119	300.00
27	Convocation & Other Functions	MHR02-38-224	15.00
28	HINDI CELL	MHR02-60-200	6.00
29	Publication	MHR02-36-223	12.00
30	Printing & Stationery	MHR02-55-220	22.00
31	Guest House	MHR02-52-211	6.00
32	Training & Placement	MHR02-27-205	15.00
33	Prizes & Medals	MHR02-25-221	4.00
34	Research Project Assistance	MHR02-26-200	3.00
35	Study Tour	MHR02-28-200	13.00
36	Student Amenities (Including NCC)	MHR02-29-204	16.00
37	SC/ST Student Fee	MHR02-30-204	35.00
38	PG Examinations	MHR02-62-227	50.00
39	UG EXAMINATION	MHR02-61-221	25.00
40	Preparatory Course	MHR02-59-200	3.00
41	National Conference/Symposium	MHR02-33-200	25.00
42	International Conference/Symposia	MHR02-34-200	50.00
43	Seminar/Symposium (In House)	MHR02-35-200	25.00
44	Department Operating Cost	MHR02-22-XXX	400.00
45	FIG	MHR04-XX-XXX	3.00
46	Assistantship/Fellowship	MHR02-23-200	3000.00
47	Computerization & Computer Support	MHR02-40-208	70.00
48	National Facilities	MHR02-41-XXX	70.00
49	AMC for Sophisticated Instruments	MHR02-65-200	100.00
	SUB TOTAL		4272.00
50	Estate Maintenance	MHR02-42-202	750.00
51	Electric and Water Supply Maintenance	MHR02-43-202	244.00
52	Power & Fuel	MHR02-63-202	930.00
53	Property Tax	MHR02-44-202	5.00
54	Repair & Maintenance of Equipment	MHR02-57-200	10.00
55	Repair & Maintenance of Furniture	MHR02-58-202	25.00
	SUB TOTAL		1964.00
	GRAND TOTAL		20,853.00

Criteria and Procedure for move from PB4 to HAG scale of Rs.67,000/ to Rs.79,000/- of Professors without any grade pay.

A. Broad Basis

1. The criteria would be based on the academic performance of the eligible Professors. It would recognize the reward the cumulative contribution of individual Professors towards achieving the overall excellence of the IIT system.

2. Individual faculty members in the IITs are expected to be active on many different fronts and that includes teaching, research, extension activities as well as department/Institute/student administration. Faculty members develop their own profile and quality contributions in diverse activities are responsible for the excellence of the IITs. Thus without diluting the need for excellence, any criteria should recognize that faculty can have different profiles.

B. Process of Movement from PB4 to the HAG scale without any grade pay for Professors

1. Assessment Committee: An Institute level standing committee be constituted to evaluate and recommend movement. This committee be broad based representing all discipline/focus areas with members drawn from all those in the HAG scale. Director would be chairperson of the committee and Dean of Faculty Affairs would be the convener. The issue of constituting the committee for the first time is addressed at 'D'.

2. Periodicity of Assessment: This would be an annual process with a cut-off date of 1st January of each year and all Professors who have completed 6 years as Professor by that date would be eligible.

3. Application Process: No applications need be invited from Professors as the Establishment Section 'A' has with it the list of eligible Professors on any given cut-off date.

4. Date of Movement to the HAG scale without any grade pay: The assessment should be completed within a period of three months and movement to HAG scale of Rs. 6700/- to Rs. 79000/- should be made effective from the cut-off date.

5. Transparency: The results of assessment, including the basis of arriving at the decisions, will be communicated to all eligible Professors after the process is completed in a specific year.


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6. Effective Implementation Date: This is a 6 CPC related order and thus the effective date of implementation will be from 18.8.2009 i.e. all faculty members who became Professors on/before 18.8.2003 would be eligible for consideration to HAG scale of Rs. 67000/- to 79000/- w.e.f. 18.8.2009. As per item 2 on periodicity above, the evaluation be repeated for movement to HAG scale of Rs. 67000/- to 79000/- with effect from 1.1.2010, 1.1.2011 as well.

7. Other Eligibility Conditions: The criteria is based on academic performance but those Professors who have been found guilty of or charged with serious offences (financial/moral/ academic etc) will be debarred from consideration for this movement to HAG scale of Rs. 67000/- to Rs. 79,000/-. Further, the application of those Professors charged with such offences will be held in abeyance until they are cleared of the charges.

8. The number of Professors who are brought in HAG scale of Rs. 67000/- to Rs. 79000/- p.m. will be in conformity with the applicable MHRD order, on the subject (Presently MHRD orders F.No.23-1/2008-TS.II dated 18th August 2009 and 23-1/2008-TS.II dated Sept. 15, 2010 are applicable.

C. Components and criteria for movement from PB4 HAG scale of Rs. 67000/- to 79000/-

The deciding components for movement will be:

1. Teaching: Teaching contributions shall typically include the following activities.

- The courses taught with the student strengths. Students strengths are important as the continued involvement of Professors with large undergraduate classes should be given credit.
- New theory as well as laboratory courses developed.
- Guidance of B.Tech./M.Sc Projects.
- Course material (print as well as electronic), text books, laboratory manuals developed.

2. Research: Research contributions shall typically include the following activities:

- Publications in peer reviewed journals and conferences.
- Chapter contributions to research based books and monographs.
- Guidance of Ph.D. and M.Tech./ MS (R) students.

3. Sponsored Research and IPR Generation: This shall typically include the following activities:



18 MAR 2011


- Sponsored research
 - Patents and other know- how generation.
 - Technology development and transfer.
4. **Extension activities:** This shall typically include the following activities
- Consulting
 - Coordination of national technical programmes
 - Conducting workshops and conferences
 - Membership of boards, national committees etc.
 - Initiating collaboration with industry or other institutions
5. **Departmental/Institutional/Student Administration:** This category is only for those persons who have held major administrative responsibilities in their tenure as Professor and that includes Wardens, Headships of Departments and other academic/student bodies, JEE/GATE Chairpersons, Deans, Deputy Director etc.

The basis of movement to the HAG scale will be the average score of the faculty member for the three preceding academic years. The cut-off score for the movement will be decided by the Initial Committee of Professors.

D. Handling Initial Movement

The following procedure will be followed for constituting the Initial Committee of 10-15 eligible Professors:

- (a) A Committee of senior Professors based on the BOG approved criteria was constituted by the Chairman, BOG for movement to AGP of Rs. 12000/-. Director has given approval for continuation of the same committee for movement to the HAG Scale.
- (b) The Professors as approved by the Chairman shall be inducted in the initial committee as its members. This committee shall work as the Standing Committee, which shall be chaired by the Director. It shall assess other eligible Professors and make recommendations to the Chairman for his approval.
- (c) Any vacancy in the Standing Committee at a later date shall be filled by the Director from amongst the Professors who are already drawing in the HAG scale on that date.
- (d) Finally, the list of eligible Professors recommended by the Standing Committee for sanctioning the HAG scale will be approved by the Chairman, Board of Governors.


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(20)

**INDIAN INSTITUTE OF TECHNOLOGY
ROORKEE**

Subject : Approval for signing the MoUs

There is a proposal to sign the MoUs with the following Institutions/Universities to exchange information on research and educational programmes, jointly organize seminars, conferences etc. exchange information on teaching etc.

1. Linköping University (LiU), Sweden
2. Army Technology Centre, HQ Technical Group EME, Directorate General of EME

The draft MoUs were discussed in the Educational Research & Planning Committee (ERPC) in its meetings held on Sept. 7, 2010. The committee recommended that the MoUs be signed after some modifications (Minutes of the ERPC at Flag - A).

The draft copies of the MoUs are enclosed for your kind perusal.

'A' It is requested that approval for signing the MoUs with the above Institutions/ Universities may kindly be accorded.

The entire matter shall be reported in the next meeting of Board of Governors.

*The proposal as at 'A' above is
approved.*

Sri Ashok Bhatnagar Ji
Chairman, Board of Governors, IIT Roorkee
R/O 117, SFS Apartments
Hauz Khas
New Delhi 110 016

Ashok Bhatnagar

13.09.2010

Chairman ; B.O.G.

S.C. Saxena
(S.C. Saxena)

Encl: As above

U.O. No/IITR/DFP/MoUs/192

Dated : 13th September, 2010

DCF&P / R
FNA please.
23/9/10

Ah
18 MAR 2011

सन्दर्भ
Reference

भा०प्रौ०सं०/IITR/संख्या/No.....

टिप्पणियाँ एवं आदेश
Notes and Order

Director

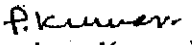
There is a proposal to sign the MoUs with the following Institutions/Universities to exchange information on research and educational programmes, jointly organize seminars, conferences etc. exchange information on teaching etc.

1. Linköping University (LiU), Sweden
2. Army Technology Centre, HQ Technical Group EME, Directorate General of EME

The draft MoUs were discussed in the Educational Research & Planning Committee (ERPC) meeting held on Sept. 7, 2010. The committee recommended that the MoUs be signed after some modifications (Minutes of the ERPC at Flag – A).

A U.O. Note for approval of the above from the Chairman, Board of Governors is placed herewith for your signature please.

You may like to seek approval of the Chairman, BoG for signing the above MoUs.


(Pradeep Kumar)
Dean, Finance & Planning

Encl: As above.



18 MAR 2011

Minutes of the Educational Research & Planning Committee (ERPC) meeting held on 7.9.2010 at 4.30 P.M. in the office of Dean, Finance & Planning.

Following were present :

1. Prof. Surendra Kumar, Dean, Academic Research
2. Prof. H.Sinvhal, Dean, Alumni Affairs
3. Prof. Manoj Kumar Arora, Associate Dean, Academic Studies
4. Prof. Sri Niwas, Earth Sciences Department
5. Prof.A.K.Jain, Physics Department
6. Prof. Vinod Kumar, Head, Electrical Engg. Department
7. Prof. Pradeep Kumar, Dean, Finance & Planning

Convener

The meeting of Educational Research & Planning Committee was held on 7.9.2010 at 4.30 P.M. to consider the following MoUs proposed to be signed with IIT Roorkee.

1. Linköping University (LiU), Sweden
2. Army Technology Centre, HQ Technical Group EME, Directorate General of EME
3. Sensor Materials Center, National Institute for Materials Science, Tsukuba, Japan

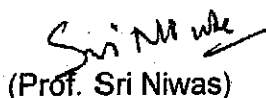
After detailed discussion, the ERPC found that the MoUs at Sl. No. 1 & 2 above, are in order and recommended to be signed as suggested.

The MoU at Sl. No. 3 was considered by the committee. The committee agreed in principle for the recommendations of MoU after some modification. The committee recommended that the draft MoU may be referred back to the Department (Physics Department) for revision.

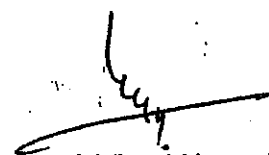
The meeting ended with a vote of thanks to the chair.



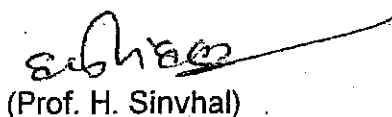
(Prof.A.K.Jain)



(Prof. Sri Niwas)



(Prof. Vinod Kumar)



(Prof. H. Sinvhal)



(Prof. Manoj Kumar Arora)



(Prof. Surendra Kumar)



(Prof. Pradeep Kumar)



18 MAR 2011

MEMORANDUM OF UNDERSTANDING

BETWEEN

INDIA INSTITUTE OF TECHNOLOGY ROORKEE

AND

LINKÖPING UNIVERSITY (LIU), SWEDEN.

Agreement for establishing scholarly exchange and co-operation between India Institute of Technology Roorkee, India and LINKÖPING UNIVERSITY (LIU), SWEDEN.

Preamble:

With the objective of promoting co-operation in academic education and research between Indian Institute of Technology Roorkee and Linköping University the following agreement is established.

ARTICLE 1 Areas of co-operation

The co-operation may concern any field or subject upon which the parties agree. It will include various activities such as:

Collaborative research, lectures and symposia, exchange of scholars and researchers, exchange of graduate students, exchange of undergraduate students, exchange of information and materials in fields which are of interest to both parties.

ARTICLE 2 Implementation

Implementation of exchange or other kinds of co-operation based on this agreement shall be the concern of the relevant faculties or departments on a case-by-case basis. A specific plan shall be worked out for each joint activity. This plan shall ensure that appropriate arrangements for studying, working, and for living and maintenance expenses are made before the arrival of a faculty member or a student to the host university.

LiU and IITR declares that the agreed activities will be carried out according to their national laws and the specific ordinances in the field of higher education and research. That means that LiU provides education for both sexes by teachers from both sexes in respect of ruling international conventions concerning the equality between men and women and human rights.

ARTICLE 3 Financing of co-operation

Both universities shall seek financing of joint activities from sources available to them. Both universities understand that all financial arrangements are to be negotiated and will depend on the availability of funds.



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ARTICLE 4 Duration and renewal of agreement

This agreement becomes effective upon the dates of signatures.

This agreement shall take effect during the academic year 2010/2011 and be valid for an initial period of five years. During the fourth year renewal will be considered.

ARTICLE 5 Revision, termination and language of agreement

This agreement is subject to revisions, renewal and/or cancellations by mutual written consent and either university may, by notice in writing of no less than six months, terminate this agreement.

This agreement is written in English, in two originals, both of equal validity.

ARTICLE 6 Intellectual Property

IITR and LiU agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arises as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

Signed for
Indian Institute of Technology
Roorkee

Signed for
Linköping University, Sweden

Prof.S.C.Saxena
Director

Mats Arwidson
Deputy University Director

Witness:

Witness:

Prof. Pradeep Kumar
Dean, Finance & Planning

Date :


18 MAR 2011

**Memorandum of Understanding for Academic Cooperation
between
Indian Institute of Technology Roorkee (IITR)
and
Army Technology Centre, HQ Technical Group EME,
Directorate General of EME**

Indian Institute of Technology Roorkee (IITR) and Army Technology Centre (ATC), HQ Technical Group EME, Directorate General of EME, hereinafter called ATC, recognize their strengths in research and education in engineering and technology, and their mutual interest in engaging themselves in academic cooperation.

Therefore, IITR and ATC agree to establish a programme for academic and research cooperation in areas of mutual interest, and in accordance with terms and conditions set forth in this memorandum of understanding (MoU).

A. Objectives

The goal of this cooperation is to foster collaboration, provide opportunity for global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions, IITR and ATC agree :

- a) To exchange information on research and educational programmes,
- b) To exchange information on teaching, learning material and other literature relevant to their educational and research programmes,
- c) To jointly organize short-term continuing education programmes on topics of mutual interest and to invite each other's faculty/officers to participate therein,
- d) To jointly organise seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty/officers to participate therein,
- e) To jointly propose and engage in research or training programmes sponsored by funding agencies, and to invite each other's faculty/officers to participate therein,

IITR and ATC agree that detailed terms and conditions that guide each activity identified above will be separately determined and agreed upon by the two institutions. These terms shall include a technical description of proposed activity, financial arrangements, and person(s) responsible for its implementation, etc.


18 MAR 2011

B. Joint Sponsored Research, Development and Consulting

IITR and ATC agree to help identify and invite faculty members/officers from the other institution to participate in research or development programmes already sponsored by external funding agencies. The terms and conditions for such participation will be worked by mutual agreement between the faculty member(s)/officers and the institution extending such an invitation.

When a faculty member/officer visits the other institution on invitation or as part of such joint research project, then such a visit will be classified as such, and handled as per rules of the individual institution.

C. Exchange of Faculty, Scientists and Officers

IITR and ATC agree to encourage collaboration between faculty and scientists/officers from the two institutions. Specifically, the institutions will encourage members of their faculty/officers to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution during vacation periods or any other leave. The terms and conditions for each visit or an assignment, including those concerning per diem, travel, and housing, will be worked out between the concerned faculty member and the institution extending an invitation.

Notwithstanding the above, IITR and ATC will examine ways to identify financial resources to fund travel by their faculty/scientists/officers.

D. Exchange of Scientific and Technical Material

IITR and ATC will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, IITR and ATC agree to explore ways to share teaching / learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

E. Joint Conferences, workshops and short-term courses

IITR and ATC agree to help identify and invite faculty members/officers from the other institution to participate in conferences, workshops and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between the invited faculty member(s)/officers and the institution extending such an invitation.


18 MAR 2011

When a faculty member/officer visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per rules of individual institution.

F. Intellectual Property

IITR and ATC agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arises as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

G. Confidentiality

IITR and ATC agree to keep all interactions between the two institutions strictly confidential.

H. Co-ordination

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of (a) Director, IIT Roorkee, or his/her nominee, (b) Director General of EME or his/her nominee, (c) Programme coordinator from the side of IITR, and (d) Programme Coordinator from the side of ATC, will periodically review and identify ways to strengthen cooperation between the two institutions.

I. Tenure and Termination

This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after suitable review and agreement.

Either institution may terminate the MoU by giving written notice to the other institution six months in advance. Once terminated, neither IITR nor ATC will be responsible for any losses, financial or otherwise, which the other institutions may suffer. However, IITR and ATC will ensure that all activities in progress are allowed to complete successfully.


18 MAR 2011

When a faculty member/officer visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per rules of individual institution.

F. Intellectual Property

IITR and ATC agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arises as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

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18 MAR 2011

J. Arbitration Clause

Should there be a dispute relating to any aspect of academic cooperation, Director, IITR and Director General of EME will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Signed for
Indian Institute of Technology
Roorkee

Signed for
ATC, HQ Technical Group EME,
Directorate General EME

Prof.S.C.Saxena
Director

Lt Gen AKS Chandele, PVSM, AVSM, ADC
Director General of EME

Witness:

Witness:

Prof. Pradeep Kumar
Dean, Finance & Planning

Maj Gen TM Mhaisale
Commander HQ Technical Group EME

Date :

Date :


18 MAR 2011

①

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Subject : Approval for signing the MoUs

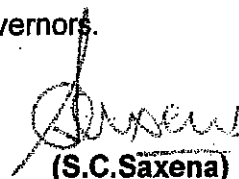
There is a proposal to sign the MoU (for renewal) with University of Applied Sciences, Dresden, Germany for further five years to exchange information on research and educational programmes, jointly organize seminars, conferences etc. exchange information on teaching etc.

It is mentioned here that this MoU is expiring in Sept. 2010.

The draft MoU was discussed in the Educational Research & Planning Committee (ERPC) in its meeting held on August 18, 2010. The committee recommended that the MoU be signed for further five years (Minutes of the ERPC at Flag - A).

It is requested that approval for signing the MoU with University of Applied Sciences, Dresden, Germany may kindly be accorded.

The entire matter shall be reported in the next meeting of Board of Governors.


(S.C. Saxena)

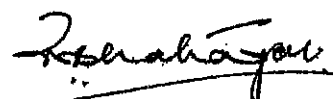
Sri Ashok Bhatnagar Ji
Chairman, Board of Governors, IIT Roorkee
R/O 117, SFS Apartments
Hauz Khas
New Delhi 110 016

Encl: As above

U.O. No/IITR/DFP/MoUs/166

Dated : 25/8/2010

The proposal is approved.



26/08/2010.

chairman-
A.O.G.

DCF2P) / R

FNA-AP.

MS





Minutes of the Educational Research & Planning Committee (ERPC) meeting held on 18.8.2010 at 4.00 P.M. in the office of Dean, Finance & Planning.

Following were present :

1. Prof. Surendra Kumar, Dean, Academic Research
2. Prof. H. Sinvhal, Dean, Alumni Affairs
3. Prof. N.K. Goel, Dean of Students Welfare
4. Prof. A.K. Jain, Physics Department
5. Prof. Pradeep Kumar, Dean, Finance & Planning Convener

The meeting of Educational Research & Planning Committee was held on 18.8.2010 at 4.00 P.M. to consider the following MoUs proposed to be signed with IIT Roorkee.

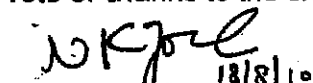
1. University of Applied Sciences, Dresden, Germany **(for renewal)**
2. Sensor Materials Center, National Institute for Materials Science, Tsukuba, Japan.


After detailed discussion, the ERPC recommended that MoU at Sl. No. 1 may be signed for renewal for further five years.

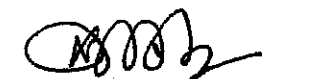
The MoU at Sl. No. 2 was considered and referred back to the Department (Physics Department) for revision to extend the scope of work by the involvement of more number of faculty and Research Scholars from the department in the concerned area of research.

The meeting ended with a vote of thanks to the chair.


(Prof. A.K. Jain)


(Prof. N.K. Goel) 18/8/10


(Prof. H. Sinvhal)

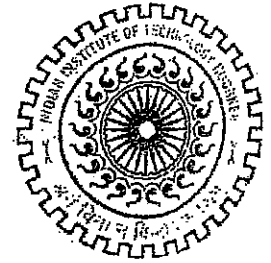

(Prof. Surendra Kumar)


(Prof. Pradeep Kumar)


18 MAR 2011



Agreement of Co-operation



between

Hochschule für Technik und Wirtschaft Dresden (FH)
University of Applied Sciences

and

Indian Institute of Technology Roorkee, India

1. The Indian Institute of Technology Roorkee and the Hochschule für Technik und Wirtschaft Dresden (FH) - University of Applied Sciences hereby agree to collaborate in matters of teaching, Research & Development and general matters of development within the Higher education sector.
2. The two institutions will co-operate in all relevant academic fields. The actual co-operation is a result of arrangements and working programmes undertaken by the respective academic departments.

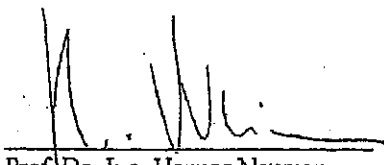
The co-operation concerns the following points:

- student exchange,
 - academic, research and administrative staff exchange,
 - joint curriculum development,
 - joint Research & Development projects.
3. The two institutions will fund, where possible, the co-operation activities. They will also endeavour to find financial support for the joint projects from the European Commission and other third party funding bodies.


18 MAR 2011

4. The host partner institution will guarantee to waive tuition fees for exchange students.
5. The host partner institution will endeavour to arrange accommodation for visiting staff and students.
6. The agreement comes into force upon signature.
7. All changes to, and the termination of, this agreement must be made in writing and requires the written confirmation of both partners. If one partner alone wishes to terminate this agreement, six months' notice is required.
8. The agreement will be drawn up in both the German and English languages, with each being equally valid.
9. The duration of the Agreement of Co-operation will be five years.
10. In the context of their respective policies and procedures, both universities agree to share any intellectual property that is developed as a result of collaboration between the institutions pursuant to this agreement. Intellectual property that has been independently developed by an institution shall be retained by the originating institution.
11. Further details on the co-operation will be determined in additional clauses of this agreement.

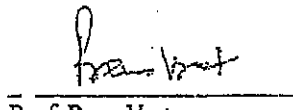
For the Hochschule für
Technik und Wirtschaft
Dresden (FH) – University
of Applied Sciences



Prof. Dr.-Ing. Hannes Neumann
Rector

Date 09.09.2005

For the Institute of Technology
Roorkee



Prof. Prem Vrat
Director

Date 0.9.09.2005

प्रो० प्रेम व्रत/Prof. PREM VRAT
निदेशक/Director
भारतीय प्रौद्योगिकी संस्थान रुड़की
Indian Institute of Technology Roorkee
रुड़की/Roorkee- 247 667



18 MAR 2011

INDIAN INSTITUTE OF TECHNOLOGY
ROORKEE

Registrar's Office
IIT Roorkee
Dy No. 562 Dt. 4/11/10
Signature: *[Signature]*

Subject : Approval for signing the MoU

There is a proposal to sign the MoU with National Institute for Materials Science (NIMS), Japan to exchange information on research and educational programmes, jointly organize seminars, conferences etc., exchange information on teaching etc.

The draft MoU was discussed in the Educational Research & Planning Committee (ERPC) in its meetings held on Sept. 7, 2010. The committee recommended that the MoU be signed after some modifications (Minutes of the ERPC at Flag - A).

The draft copy of the MoU is enclosed for your kind perusal.

It is requested that approval for signing the MoU with the above Institution/ Universities may kindly be accorded.

The entire matter shall be reported in the next meeting of Board of Governors.

The proposal vide 'A' above is approved

Sri Ashok Bhatnagar Ji
Chairman, Board of Governors, IIT Roorkee
R/O 117, SFS Apartments
Hauz Khas
New Delhi 110 016

[Signature]
Saxena

(S.C. Saxena)

28.09.2010

Chairman, B.O.G.

Chairman
BoG, IIT Roorkee

Encl: As above

U.O. No/IITR/DFP/MoU/402

Dated : 28-09-2010

DOFA / R

FN A - pl.

[Signature]

04 OCT 2010

[Signature]
18 MAR 2011

[Signature]

TEHD

Minutes of the Educational Research & Planning Committee (ERPC) meeting held on 7.9.2010 at 4.30 P.M. in the office of Dean, Finance & Planning.

Following were present :

1. Prof. Surendra Kumar, Dean, Academic Research
2. Prof. H.Sinvhal, Dean, Alumni Affairs
3. Prof. Manoj Kumar Arora, Associate Dean, Academic Studies
4. Prof. Sri Niwas, Earth Sciences Department
5. Prof. A.K. Jain, Physics Department
6. Prof. Vinod Kumar, Head, Electrical Engg. Department
7. Prof. Pradeep Kumar, Dean, Finance & Planning Convener

The meeting of Educational Research & Planning Committee was held on 7.9.2010 at 4.30 P.M. to consider the following MoUs proposed to be signed with IIT Roorkee.

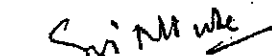
1. Linköping University (LiU), Sweden
2. Army Technology Centre, HQ Technical Group EME, Directorate General of EME
3. Sensor Materials Center, National Institute for Materials Science, Tsukuba, Japan

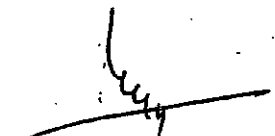
After detailed discussion, the ERPC found that the MoUs at Sl. No. 1 & 2 above, are in order and recommended to be signed as suggested.


The MoU at Sl. No. 3 was considered by the committee. The committee agreed in principle for the recommendations of MoU after some modification. The committee recommended that the draft MoU may be referred back to the Department (Physics Department) for revision.

The meeting ended with a vote of thanks to the chair.



(Prof. A.K. Jain)

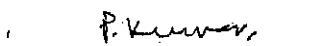

(Prof. Sri Niwas)


(Prof. Vinod Kumar)


(Prof. H. Sinvhal)


(Prof. Manoj Kumar Arora)


(Prof. Surendra Kumar)


(Prof. Pradeep Kumar)



18 MAR 2011

**Memorandum of Understanding for Academic Cooperation
between
Indian Institute of Technology Roorkee (IITR)
and
National Institute for Materials Science (NIMS), Japan**

Indian Institute of Technology Roorkee (IITR) and National Institute for Materials Science (NIMS), Japan recognize their strengths in research and education in one or more disciplines of science, engineering, management and social sciences, and their mutual interest in engaging themselves in academic cooperation.

Therefore, IITR and National Institute for Materials Science (NIMS), Japan agree to establish a programme for academic cooperation in areas of mutual interest, and in accordance with terms and conditions set forth in this memorandum of understanding (MoU).

A. Objectives

The goal of this cooperation is to foster collaboration, provide opportunity for global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions, IITR and NIMS agree :

- a) to exchange information on research and educational programmes,
- b) to exchange information on teaching, learning material and other literature relevant to their educational and research programmes,
- c) to jointly organize short-term continuing education programmes on topics of mutual interest and to invite each other's faculty to participate therein,
- d) to jointly organize seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein,
- e) to jointly propose and engage in research or training programmes sponsored by funding agencies, and to invite each other's faculty to participate therein.

IITR and NIMS agree that detailed terms and conditions that guide each activity identified above will be separately determined and agreed upon by the two institutions. These terms shall include a technical description of proposed activity, financial arrangements, and person(s) responsible for its implementation, etc.

B. Joint Sponsored Research, Development and Consulting

IITR and NIMS agree to help identify and invite faculty members from the other institution to participate in research or development programmes already sponsored by external funding agencies. The terms and conditions for such participation will be worked by mutual agreement between the faculty member(s) and the institution extending such an invitation.


18 MAR 2011

When a faculty member visits the other institution on invitation or as part of such joint research project, then such a visit will be classified as such, and handled as per rules of the individual institution.

C. Exchange of Faculty, Scientists and Staff

IITR and NIMS agree to encourage collaboration between faculty and scientists from the two institutions. Specifically, the institutions will encourage members of their faculty to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution during vacation periods or sabbatical leave. The terms and conditions for each visit or an assignment, including those concerning stipend, travel, and housing, will be worked out between the concerned faculty member and the institution extending an invitation.

Notwithstanding the above, IITR and NIMS will examine ways to identify financial resources to fund international travel by their faculty/scientists/students.

D. Student Exchange

IITR and NIMS agree that student exchange will be guided by principles listed below. A home institution refers to the institution where a student is a full-time student, and from where he/she is expected to graduate. A host institution refers to an institution that receives a student for a brief period of time to undertake a pre-determined programme of study or research.

- a) Exchange students will be selected by mutual agreement between the home institution and the host institution.
- b) An exchange student will continue to be treated as full-time student at his/her home institution.
- c) An exchange student will be considered as full-time "exchange" student at the host institution.
- d) His/her program of study at the host institution will be determined by mutual consultation between his/her academic advisor at the home institution and his/her "interim" academic advisor identified by the host institution.
- e) The host institution will evaluate an exchange student's performance in each course or module, award a letter grade or marks, and issue a letter to that effect.
- f) The home institution may award to the exchange student credits earned at a host institution, but only after the home institution has established correspondence between courses taken at the host institution vis-à-vis those offered at the home institution.
- g) If an exchange student has undertaken research, then the host institution will evaluate the exchange student's performance in the research, and issue a letter to that effect, together with a technical "report" of the research carried out.
- h) If an exchange student has undertaken research, then the home institution will take note of the performance evaluation and the technical report, and take steps in accordance with its own procedures.
- i) As a host institution, IITR and NIMS will, if possible, make every effort to arrange for subsidized housing for exchange students.

- j) IITR and NIMS will examine ways to identify financial resources to fund international travel by students.
- k) The exchange students will pay tuition and other fees at their home institution and will be exempted from paying fees at the host institution except for social services.

E. Exchange of Scientific and Technical Material

IITR and NIMS will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, IITR and NIMS agree to explore ways to share teaching / learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

F. Joint Conferences, workshops and short-term courses

IITR and NIMS agree to help identify and invite faculty members from the other institution to participate in conferences, workshops and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between the invited faculty member(s) and the institution extending such an invitation.

When a faculty member visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per rules of individual institution.

G. Intellectual Property

IITR and NIMS agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arises as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

H. Co-ordination

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of (a) Director, IIT Roorkee, or his/her nominee, (b) Vice Chancellor/President, NIMS or his/her nominee, (c) program coordinator from the side of IITR, and (d) Programme Coordinator from the side of NIMS, will periodically review and identify ways to strengthen cooperation between the two institutions.

I. Tenure and Termination:

This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after suitable review and agreement.

Either institution may terminate the MoU by giving written notice to the other institution six months in advance. Once terminated, neither IITR nor NIMS will be responsible for any losses, financial or otherwise, which the other institutions may

suffer. However, IITR and NIMS will ensure that all activities in progress are allowed to complete successfully.

J. Arbitration Clause

Should there be a dispute relating to any aspect of academic cooperation, Director, IITR and Vice Chancellor / President, NIMS will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Signed for

Indian Institute of Technology
Roorkee

Prof S.C. Saxena
Director

Witness:

Prof. Pradeep Kumar
Dean, Finance & Planning

Date :

Signed for

National Institute for Materials Science
Japan

Witness:

Date :



18 MAR 2011

**Memorandum of Understanding
between
Indian Institute of Technology Roorkee (IITR)
and
Hochschule für Technik und Wirtschaft Dresden (FH)
University of Applied Sciences**

1. The Indian Institute of Technology Roorkee and the Hochschule für Technik und Wirtschaft Dresden (FH), University of Applied Sciences hereby agree to collaborate in matters of teaching, Research & Development and general matters of development within the Higher education sector.
2. The two institutions will co-operate in all relevant academic fields. The actual co-operation is a result of arrangements and working programmes undertaken by the respective academic departments.

The co-operation concerns the following points :


- student exchange,
 - academic, research and administrative staff exchange,
 - joint curriculum development,
 - joint research & development projects.
3. The two institutions will fund, where possible, the co-operation activities. They will also endeavour to find financial support for the joint projects from the European Commission and other third party funding bodies.
 4. The host partner institution will guarantee to waive tuition fees for exchange students.
 5. The host partner institution will endeavour to arrange accommodation for visiting staff and students.
 6. The agreement comes into force upon signature.
 7. All changes to, and the termination of, this agreement must be made in writing and requires the written confirmation of both partners. If one partner alone wishes to terminate this agreement, six months' notice is required.
 8. The agreement will be drawn up in both the German and English languages, with each being equally valid.
 9. The duration of the Agreement of Co-operation will be five years.

Copy to:
Meeting Section
Smt Kumar
21/11/10
अधीक्षक/Superintendent
उत्पादक (वि एवं निर्यात) कार्यालय
Dean (F&A) Office
IITR Roorkee

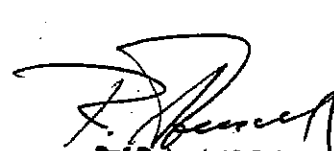
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18 MAR 2011


10. In the context of their respective policies and procedures, both universities agree to share any intellectual property that is developed as a result of collaboration between the institutions pursuant to this agreement. Intellectual property that has been independently developed by an institution shall be retained by the originating institution.
11. Further details on the co-operation will be determined in additional clauses of this agreement.

For the Indian Institute of Technology
Roorkee

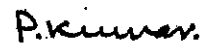

(Prof. S.C. Saxena)
Director

For the Hochschule für Technik
und Wirtschaft Dresden (FH),
University of Applied Sciences



Prof. Dr.-Ing. habil. R. Stenze
Rektor



Witness:


(Prof. Pradeep Kumar)
Dean, Finance & Planning

Dated : Sept 14, 2010


Hochschule für Technik und
Wirtschaft Dresden (FH)
Prof. Dr.-Ing. T. Grischek
FB Bauingenieurwesen / Architektur
- LG Wasserwesen -
Friedrich-List-Platz 1
01069 Dresden

22 Sept. 2010



18 MAR 2011

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Subject : Approval for signing the MoU

There is a proposal to sign the MoU with Cardiff University, U.K. to exchange information on research and educational programmes, jointly organize seminars, conferences etc., Exchange of Faculty, Scientists and Staff and Student Exchange etc.

The draft MoU was discussed in the Educational Research & Planning Committee (ERPC) meeting held on Nov. 1, 2010. The committee took a note on the recommendation of the Cardiff University, U.K. to strengthen the future research (Flag - A) and subsequently their consent on the contents of the Draft MoU (Flag - B). The proposal of MoU has the consent of DPC (Flag - C). The details of the present collaborative work and future scope from the Department is also enclosed (Flag - D). The committee recommended that the MoU be signed (Minutes of the ERPC at Flag - E).

The draft copy of the MoU is enclosed for your kind perusal.

'A' / It is requested that approval for signing the MoU with the above University may kindly be accorded.

The entire matter shall be reported in the next meeting of Board of Governors.

The proposal as at 'A' is approved.

Sri Ashok Bhatnagar

15.11.2010

(S.C. Saxena)

Sri Ashok Bhatnagar Ji
Chairman, Board of Governors, IIT Roorkee
R/O 117, SFS Apartments
Hauz Khas
New Delhi 110 016

Chairman, B.O.G.

Encl: As above

U.O. No/IITR/DFP/MoU/ 403

Dated : 8-11-2010

M.S.

DEF2P/R

FINA Please

18 MAR 2011

Sh
20/11/10

Sh

20/11/10

Cardiff School of Engineering
Director of School Professor H R Thomas BSc MSc DIC PhD DSc FREng CEng FICE FGS
Geoenvironmental Research Centre
Director Professor H R Thomas BSc MSc DIC PhD DSc FREng CEng FICE FGS



Cardiff University
Queen's Buildings
Newport Road
Cardiff CF24 3AA
Wales UK
Tel +44(0)29 2087 4004
Fax +44(0)29 2087 4004/0045
www.GRC.cf.ac.uk
Email GRC@cardiff.ac.uk

For the attention of Professor Pradeepkumar

Dean, Planning
Indian Institute of Technology Roorkee
Roorkee 247 667
INDIA

Dear Professor Pradeepkumar

I have been in research collaboration with Dr K Muregesan, IIT Roorkee. He visited Cardiff University in 2007 and 2010. I would like to extend our research collaboration to other areas of research interest common to both IIT Roorkee and Cardiff University. I agree to the contents of the proposed Memorandum of Understanding between IIT Roorkee and Cardiff University.

Yours sincerely

Professor Hywel R Thomas FREng
Pro Vice Chancellor, Engagement & International
Director, Geoenvironmental Research Centre
School of Engineering
Queen's Buildings
The Parade
Cardiff CF24 3AA
Tel: 02920 874965
Fax: 02920 874004

18 MAR 2011



Cardiff School of Engineering
Director of School Professor H R Thomas BSc MSc DIC PhD DSc FREng CEng FICE FGS
Geoenvironmental Research Centre
Director Professor H R Thomas BSc MSc DIC PhD DSc FREng CEng FICE FGS



Cardiff University
Queen's Buildings
Newport Road
Cardiff CF24 3AA
Wales UK
Tel +44(0)29 2087 4004
Fax +44(0)29 2087 4004/0045
www.GRC.cf.ac.uk
Email GRC@cardiff.ac.uk

For the attention of Professor Pradeepkumar

Dean, Planning
Indian Institute of Technology Roorkee
Roorkee 247 667
INDIA

Dear Professor Pradeepkumar,

I agree to the contents of the proposed Memorandum of Understanding
between IIT Roorkee and Cardiff University.

Yours sincerely

Professor Hywel R Thomas FREng
Pro Vice Chancellor, Engagement & International
Director, Geoenvironmental Research Centre
School of Engineering
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Tel: 02920 874965
Fax: 02920 874004

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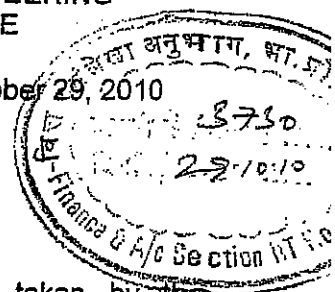


DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE

NO.MIED/DPC/M-2/ 139

Dated: October 29, 2010

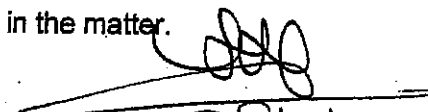
✓
Dean,
Planning



It is informed that the following decision has been taken by the
Departmental Professorial Committee held on **October 28, 2010 at 5.00 p.m.:**

For kind attention of	Item
Dean, Planning	MIED/DPC-10-10/3: The DPC discussed the MoU between IIT Roorkee and Cardiff University, U.K. as proposed by Dr. K. Murugesan, Asstt. Professor, MIED. The DPC discussed the MoU in detail and it was decided to recommend and forward the MoU to the Dean, Planning for further processing.

It is requested to take further necessary action in the matter.


29/10/10
(SATISH C. SHARMA)
Prof. & Head

Encl: As above.

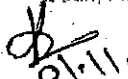
Copy to the following:

1. Dr. K. Murugesan, Asstt. Professor, MIED.
2. Personal File

(SATISH C. SHARMA)
Prof. & Head

Sri Sunil

P. Kumar,
कुलपति कार्यालय
Dean, Finance & Planning


01.11.


18 MAR 2011

**Ongoing research activities at IIT Roorkee in collaboration with
Cardiff University, Cardiff, UK**

Dr. K. Murugesan, Assistant Professor in Mechanical & Industrial Engineering Department has been in research collaboration with Geoenvironmental Research Centre (GRC), School of Engineering, Cardiff University, Cardiff, UK since 1997 and visited the above centre four times including twice after joining IIT Roorkee in 2007 and 2010. The research activities were related to heat and mass transfer studies with applications to nuclear waste disposal facilities and ground source heat pump. Currently the following research activities are being carried out in Mech. & Ind. Engg. Dept., in continuation of his research collaboration with the above university. The GRC is well known for its research contribution in geoenvironmental related problems. Hence scientists and personnel from academic institutes from Malaysia, China, Iraq, India, South Africa visit this centre with their own funding.

M. Tech. dissertation work:

Experimental Investigation of the performance of Ground Source Heat Pump for space heating - This research focuses on the utilization of Geo-Energy in shallow depths for space heating with the main objective of reducing the centralized generated electricity supply thus reducing CO2 emission in India.

B. Tech dissertation work:

- (i) Thermal Response Test analysis of Bore Hole Heat Exchanger for GSHP
- (ii) Parametric Analysis of Ground Source Heat Pump

Faculty involved in the research:

- (i) Dr. K. Murugesan
- (ii) Dr. P. K. Sahoo
- (iii) Dr. R. P. Gakkhar
- (iv) Dr. Manish Mishra
- (v) Prof. Akhilesh Gupta
- (vi) Dr. K. M. Singh

Other research areas of collaboration for Mech. & Ind. Engg. Dept.

Cardiff University is well known for its Institute of Mechanical and Manufacturing Centre, which is supported mainly by funding from industries. This Centre is equipped with a number of state of art research facilities. In order to motivate their faculty they give away awards in the name of Outstanding Young Manufacturing Engineer Award. School of Engineering has strong links with organizations such as Women in Science and Engineering (WISE), Science Made Simple etc. to promote implementation of engineering education in the society.


18 MAR 2011

Ongoing research activities at IIT Roorkee in collaboration with

Cardiff University, Cardiff, UK

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Area of research collaboration at the institute level through MoU with

Cardiff University, Cardiff, UK

Development of Sustainable Environment in Developing Countries

Motivation

Increased level of energy consumption for the continuous civilization of human kind due to scientific advancements and technological developments has always had its negative impact on environment. Many international organizations and countries are making all efforts to preserve the environment sustainable. Continuous use of fossil fuels has increased the carbon activity globally raising an alarming question how to reverse the damage caused to the environment. Fast depletion of fossil fuels has forced the mankind to look for renewable and sustainable energy sources which will have least effect on our environment. This situation is double folded in the case of developing countries with considerable increase in energy consumption and at the same time providing environmentally-safe sanitation to millions of people. Every citizen has the right to have access for clean water and atmosphere. However, with the fast development of economy and population growth, these things do not go parallel fully satisfying all the requirements for healthy living. Though many developing countries have made significant progress in these areas still a lot more needs to be done to take the benefits to all the citizens of the country.

The most demanding problems facing the developing countries are poor sanitation, water contamination, persistent organic pollutants, and lack of social awareness on sanitation related issues, lack of knowledge of the people to understand these problems and take suitable remedy. On top these problems, there is an ever increasing demand on energy usage, which has forced the governments to think of alternate sources of energy. Solar, wind, tidal and geothermal energy sources have been considered as renewable. The word renewable describes the characteristic or nature of the source, the terminology sustainable means how the energy source is utilized. While the availability of renewable energy sources depends on Mother Nature, sustainability is left with the mankind who utilizes the energy for its need. This is the basic motivation of the present workshop, which aims to focus on the utilization of renewable energy as sustainable and at the same time causing minimum damage to the environment so that a clean and green environment is left behind for the future generation. Due to the multi-faceted nature of these problems there is a necessity for the involvement of the important social player such as academic, NGOs, government, industries and international agencies. This workshop is intended to deliberate on issues related to sanitation problems, sustainable energy resources, social issues related to implementation and the effect of efforts taken towards sanitation and sustainable energy sources on environment.

Research areas

1 Sustainable Energy Sources


18 MAR 2011

- Solar energy source and utilization
- Wind energy potential
- Renewable geothermal energy sources
- Ground source heat pump for building heating and cooling
- Combined solar and geothermal energy utilization
- Sustainable renewable energy sources

II Contamination and Sanitation

- Sources of water contamination and containments
- Issues related to Ganga water pollution
- Ground water source and pollution
- Persistent Organic Pollutants (POP)
- Role of public sanitation for sustainable environment
- Solid waste disposal

III Role of Society on Sustainable Environment

- Public awareness on water pollution
- Community education of sanitation
- Community cooperation with government initiatives
- NGSs role in implementing methodologies developed
- Academic-NGO-Industry-Government linkage strategies
- Participation of students in creating community awareness
- Training of NGSs by national and international bodies

Proposed activities

- Carry out research on environment related areas such as water and ground contamination, green energy, public health and safety from water and ground contamination
- Preparation of water and ground contamination blue print for the Uttarakhand state
- Study of contamination of ground water due to industrial waste in Ganga Canal region
- Spread awareness in village communities about ground water contamination and provide education on various methods of purification of water
- Educating village communities on health and safety aspects in the context of ground water pollution
- Creating awareness among public of rain water harvesting
- Green energy villages – study on identification of villages suitable for cultivation of biodiesel plants
- Organising seminars/workshops on areas related to water and ground contamination, health and safety, green energy villages
- Exhibition of products developed by the research programs
- Study on reduction in emission by biodiesel engines for rural applications

- 7
- Research on geological disposal of high level nuclear waste
 - Thermo-Hydro-Mechanical analysis of engineered clay barriers used in geological disposal of nuclear waste facilities
 - Innovation in design engineering
 - Research on Advanced Manufacturing

List of faculty involved at the initial stage

1. Prof. S.C. Sharma, Mech. & Ind. Engg. Dept.
2. Prof. Pradeepkumar, Dean – Finance & Planning
3. Dr. R. P. Gakkhar, Mech. & Ind. Engg. Dept.
4. Dr. K. Murugesan, Mech. & Ind. Engg. Dept.
5. Dr. P. K. Sahoo, Mech. & Ind. Engg. Dept.
6. Dr. Hari Prasad, Civil Engg. Dept.
7. Dr. Babita Sinha, Humanities Dept.

Departments that will take part in MoU activities

1. Mechanical & Industrial Engineering
2. Civil Engineering
3. Earth Science
4. Physics
5. Humanities
6. Bio technology



18 MAR 2011

7

Minutes of the Educational Research & Planning Committee (ERPC) meeting held on 1.11.2010 at 3.00 P.M. in the office of Dean, Finance & Planning.

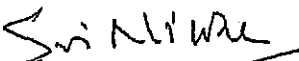
Following were present :


1. Prof. H.Sinvhal, Dean, Alumni Affairs
2. Prof. Surendra Kumar, Dean, Academic Research
3. Prof. H.O.Gupta, Dean, Academic Studies
4. Prof. Sri Niwas, Earth Sciences
5. Prof. S.C.Sharma, Head, MIED
6. Prof. Pradeep Kumar, Dean, Finance & Planning Convener


The meeting of Educational Research & Planning Committee was held on 1.11.2010 at 3.00 P.M. to consider the MoU with Cardiff University, U.K. proposed to be signed with IIT Roorkee.

After detailed discussion, the ERPC found that the above MoU is in order and recommended that the MoU may be signed as suggested.

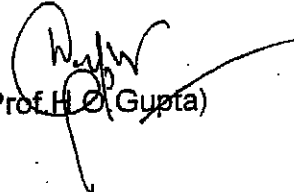
The meeting ended with a vote of thanks to the chair.



(Prof. Sri Niwas)


(Prof. H. Sinvhal) 1.11.2010


Nov 01, 2010
(Prof. S.C.Sharma)


(Prof. Surendra Kumar)


(Prof. H.O. Gupta)


(Prof. Pradeep Kumar)


18 MAR 2011

Department of Mechanical & Industrial Engineering, IIT Roorkee, Roorkee - 247 667

Dated 27th October 2010

Head

Mech. & Ind. Engg. Dept.,

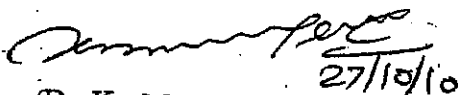
IIT Roorkee

Dear Professor

I have been in research contact and research collaboration with Prof. H.R. Thomas, Cardiff University, Cardiff, UK since 1997. I had visited the above university four times including two times after joining IIT Roorkee. During my recent visit in June 2010, Prof. Thomas expressed his willingness to work closely with IIT Roorkee in all possible research areas of interest of both the institutes. Recently Prof. Thomas has taken over as Pro Vice-Chancellor - Innovation and International of Cardiff University. I find a good scope for research collaboration with Cardiff University for the benefit of Mechanical & Industrial Engineering Department and other departments of IIT Roorkee. In this regard herewith I am submitting a MoU document to be signed with Cardiff University. Prof. Thomas will be visiting New Delhi during second week of November 2010 for attending some high level meetings with Government of India agencies. Hence I request you to kindly invite Prof. Thomas to visit Mechanical & Industrial Engineering Department and the institute so that during his visit a MoU can be signed with Cardiff University, Cardiff, UK. Further I request you to kindly forward the MoU with DPC recommendation to Dean - Planning for further course of action.

Thanking you

Sincerely


(Dr. K. Murugesan) 27/10/10

Asst. Prof., MIED

Encl: MoU document


18 MAR 2011

MoU between IIT Roorkee and Cardiff University, Cardiff, UK

List of faculty involved in MoU

1. Prof. S. C. Sharma, Head, Mech. & Ind. Engg. Dept.
2. Prof. Pradeep Kumar, Dean, Finance and Planning
3. Dr. K. Murugesan, Mech. & Ind. Engg. Dept.
4. Dr. P. K. Sahoo, Mech. & Ind. Engg. Dept.
5. Dr. Hari Prasad, Civil Engg. Dept.
6. Dr. Babita Sinha, Humanities Dept.



18 MAR 2011

**Memorandum of Understanding for Academic Cooperation
between
Indian Institute of Technology Roorkee (IITR)
and
Cardiff University, Cardiff, United Kingdom**

Indian Institute of Technology Roorkee (IITR) and Cardiff University, Cardiff, UK recognize their strengths in research and education in one or more disciplines of science, engineering, management and social sciences, and their mutual interest in engaging themselves in academic cooperation.

Therefore, IITR and Cardiff University, Cardiff, UK agree to establish a programme for academic cooperation in areas of mutual interest, and in accordance with terms and conditions set forth in this memorandum of understanding (MoU).

A. Objectives

The goal of this cooperation is to foster collaboration, provide opportunity for global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions, IITR and Cardiff University, Cardiff, UK agree :

- a) to exchange information on research and educational programmes,
- b) to exchange information on teaching, learning material and other literature relevant to their educational and research programmes,
- c) to jointly organize short-term continuing education programmes on topics of mutual interest and to invite each other's faculty to participate therein,
- d) to jointly organize seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein,
- e) to jointly propose and engage in research or training programmes sponsored by funding agencies, and to invite each other's faculty to participate therein,
- f) to exchange, on a reciprocal basis, students at Undergraduate, Graduate and Doctoral levels for limited periods of time for purpose of education and /or research.

IITR and Cardiff University, Cardiff, UK agree that detailed terms and conditions that guide each activity identified above will be separately determined and agreed upon by the two institutions. These terms shall include a technical description of proposed activity, financial arrangements, and person(s) responsible for its implementation, etc.

B. Joint Sponsored Research, Development and Consulting

IITR and Cardiff University, Cardiff, UK agree to help identify and invite faculty members from the other institution to participate in research or development


18 MAR 2011

programmes already sponsored by external funding agencies. The terms and conditions for such participation will be worked by mutual agreement between the faculty member(s) and the institution extending such an invitation.

When a faculty member visits the other institution on invitation or as part of such joint research project, then such a visit will be classified as such, and handled as per rules of the individual institution.

C. Exchange of Faculty, Scientists and Staff

IITR and Cardiff University, Cardiff, UK agree to encourage collaboration between faculty and scientists from the two institutions. Specifically, the institutions will encourage members of their faculty to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution during vacation periods or sabbatical leave. The terms and conditions for each visit or an assignment, including those concerning stipend, travel, and housing, will be worked out between the concerned faculty member and the institution extending an invitation.

Notwithstanding the above, IITR and Cardiff University, Cardiff, UK will examine ways to identify financial resources to fund international travel by their faculty/scientists/students.

D. Student Exchange

IITR and Cardiff University, Cardiff, UK agree that student exchange will be guided by principles listed below. A home institution refers to the institution where a student is a full-time student, and from where he/she is expected to graduate. A host institution refers to an institution that receives a student for a brief period of time to undertake a pre-determined programme of study or research.

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- b) An exchange student will continue to be treated as full-time student at his/her home institution.
- c) An exchange student will be considered as full-time "exchange" student at the host institution.
- d) His/her program of study at the host institution will be determined by mutual consultation between his/her academic advisor at the home institution and his/her "interim" academic advisor identified by the host institution.
- e) The host institution will evaluate an exchange student's performance in each course or module, award a letter grade or marks, and issue a letter to that effect.
- f) The home institution may award to the exchange student credits earned at a host institution, but only after the home institution has established


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correspondence between courses taken at the host institution vis-à-vis those offered at the home institution.

- g) If an exchange student has undertaken research, then the host institution will evaluate the exchange student's performance in the research, and issue a letter to that effect, together with a technical "report" of the research carried out,
- h) If an exchange student has undertaken research, then the home institution will take note of the performance evaluation and the technical report, and take steps in accordance with its own procedures.
- i) As a host institution, IITR and Cardiff University, Cardiff, UK will, if possible, make every effort to arrange for subsidized housing for exchange students.
- j) IITR and Cardiff University, Cardiff, UK will examine ways to identify financial resources to fund international travel by students.
- k) The exchange students will pay tuition and other fees at their home institution and will be exempted from paying fees at the host institution except for social services.

E. Exchange of Scientific and Technical Material

IITR and Cardiff University, Cardiff, UK will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, IITR and Cardiff University, Cardiff, UK agree to explore ways to share teaching / learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

F. Joint Conferences, workshops and short-term courses

IITR and Cardiff University, Cardiff, UK agree to help identify and invite faculty members from the other institution to participate in conferences, workshops and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between the invited faculty member(s) and the institution extending such an invitation.

When a faculty member visits the other institution on invitation or as part of such joint activity, then such a visit will be classified as such, and handled as per rules of individual institution.

G. Intellectual Property

IITR and Cardiff University, Cardiff, UK agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arises as a result of any collaborative research or activity under this MoU will be worked out on a case-to-case basis, and will be consistent with officially laid down IPR policies of the two institutions.

H. Co-ordination

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of (a) Director, IIT Roorkee, or his/her nominee, (b) Vice Chancellor/President, Cardiff University, Cardiff, UK or his/her nominee, (c) program coordinator from the side of IITR, and (d) Programme Coordinator from the side of Cardiff University, Cardiff, UK, will periodically review and identify ways to strengthen cooperation between the two institutions.

I. Tenure and Termination:

This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after suitable review and agreement.

Either institution may terminate the MoU by giving written notice to the other institution six months in advance. Once terminated, neither IITR nor Cardiff University, Cardiff, UK will be responsible for any losses, financial or otherwise, which the other institutions may suffer. However, IITR and Cardiff University, Cardiff, UK will ensure that all activities in progress are allowed to complete successfully.

J. Arbitration Clause

Should there be a dispute relating to any aspect of academic cooperation, Director, IITR and Vice Chancellor / President, Cardiff University, Cardiff, UK will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Signed for

Indian Institute of Technology
Roorkee

Signed for

Cardiff University, Cardiff, UK
Prof. Hywel R. Thomas
Pro Vice-Chancellor
Innovation & International
Cardiff University, Cardiff, UK

Witness:

Witness:

Date :



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सत्यमेव जयते

कार्यालय प्रधान महालेखाकार (लेखा परीक्षा)-उत्तराखण्ड
OFFICE OF THE PRINCIPAL ACCOUNTANT GENERAL (AUDIT)
UTTARAKHAND

Registered/Confidential

No. CAW/AG/AB(C)/SAR/ IIT(R)/2009-10 / 546
Date: 26-11-2010

To,

The Secretary,
Department of Education, Government of India,
Ministry of Human Resources Development
New Delhi -110001.

Sub: Audit report on the Accounts of Indian Institute of Technology, Roorkee
for the year 2009-10

Sir,

1. I am to forward herewith the Audit Report and certified copy of annual accounts (English Version) in respect of Indian Institute of Technology, Roorkee for the year 2009-10.
2. The Audit Report and the certified accounts may please be placed on the table of both the Houses of Parliament.
3. The date on which the Audit Report and the certified accounts are placed on the table of both the Houses of Parliament may please be intimated to the Comptroller and Auditor General of India as well as to this office.
4. Receipt of this document may please be acknowledged.

Yours faithfully,

Enclosure: - As above

(JAYANT KHANNA)
Deputy Accountant General

No. CAW/AG/AB(C)/SAR/ IIT(R)/2009-10 / 546

Dated: 26.11.2010

1. ✓ Copy along with a copy of the Audit Report for 2009-10 forwarded to the Director, Indian Institute of Technology, Roorkee for information and necessary action.
2. Sr. Administrative Officer (AB), O/o the Comptroller & Auditor General of India, 10- Bahadur Shah Zafar Marg, New Delhi-110124
Receipt of this document may kindly be acknowledged.

Enclosure: - As above

(JAYANT KHANNA)
Deputy Accountant General

D(F&P)
FNA please.

18 MAR 2011

Separate Audit Report of the Comptroller & Auditor General of India on the accounts of Indian Institute of Technology, Roorkee for the year ended 31 March 2010

We have audited the attached Balance Sheet of Indian Institute of Technology, Roorkee (IITR) as on 31 March 2010 and Income & Expenditure Account/Receipt & Payment Account for the year ended on that date under Section 19 (2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 23 (2) of the Institute of Technology Act, 1961. These financial statements are the responsibility of the IITR's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification; conformity with the best accounting practices, accounting standard and disclosures norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency -cum performance aspects etc., if any are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on test basis, evidences supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that :

- i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.



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- ii. The Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report have been drawn up in the format approved by the Ministry of Finance.
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by IITR as required under Section 23 (1) of the Institute of Technology Act, 1961 in so far as it appeared from our examination of such books.
- iv. We further report that:

A Balance Sheet

1. Current Liabilities & Provision (Sch. 2A-2C) – Rs. 12065.07 lakh
Current Liabilities

1.1 The above amount does not include Rs.95.66 lakh being the value of bills submitted by the contractors prior to 31 March 2010. Liability for the same should have been provided in the accounts. This has resulted in understatement of Current Liabilities and Capital Works in Progress by Rs.95.66 lakh respectively.

1.2 Expenses Payable- (Sch-3)- Rs.715.31 lakh

This does not includes Rs.86.04 lakh being the amount of unpaid salary of Security & other expenses (Journal & Periodicals) for the month of March, 2010.

This has resulted in understatement of Expenses payable and overstatement of Income by Rs.86.04 lakh.

2 Current Assets Loan & Advances

Adv. Recoverable in cash or kind

Adv. Against letter of credit from SRIC (Sch 7A) Rs. 840.90 Lakh

This includes Rs. 49.85 lakh being the amount refunded by person against whom LC Advance was sanctioned for purchase of Assets which was not capitalized till March 2010. The refunded amount was adjusted against the existing capitalized fixed assets which is not in order. The same should have been adjusted against LC advance This has resulted in understatement of fixed assets and overstatement of LC advance by Rs. 49.85 lakh.


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B. Accounting Policies and Notes to Account- (Schedule. 10)

3. The IITR had capital commitment valuing Rs. 11941.02 lakh on various capital works pending execution for completion as on the Balance Sheet date. This has not been disclosed in the notes to accounts.

C. Grants-in-aid

4. Out of the grants in aid of Rs. 279.78 crore received by IIT Roorkee during 2009-10 (Rs. 28.77 crore was received in March, 2010) IIT Roorkee could utilize a sum of Rs. 279.78 crore leaving a balance of Rs. NIL as unutilized grants as on 31 March 2010.

v Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure Accounts and Receipts & Payment Accounts dealt with by this report are in agreement with the books of accounts.


vi In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned at Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:

- a. In so far as it relates to the Balance Sheet, of the state of affairs of the Institute as at 31 March 2010 and
- b. In so far as it relates to the Income & Expenditure Accounts to the deficit for the year ended on that date.

For and on behalf of the
Comptroller and Auditor General of India

Place: Dehradun

Dated:


26/11/2010
Principal Accountant General


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Annexure - I to Audit Report

1. Adequacy of Internal Audit system

The Internal Audit Wing of IITR was set up in March 2009 with the strength of 3 personnel. However, the Wing is not yet functional (March, 2010). During the year the Institute has not conducted Internal Audit. The internal Audit wing needs to be strengthened as per the size of the Institute.

2. Adequacy of Internal Control System

There is no separate Internal Control mechanism in IITR except for a non-functional Internal Audit Wing with only 3 personnel. This needs to be strengthened.

3. System of physical verification of fixed assets


Physical verification of fixed assets pertaining to each department is to be conducted by the individual department. Most of the departments have completed the process.

4. System of physical verification of inventories

The purchases are made by individual departments and the physical verification had been conducted by respective departments.

5. Regularity in payment of statutory dues.

The statutory dues are paid regularly in due time.


25/11/10
Deputy Accountant General


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Audit Certificate

I have audited the attached Balance Sheet of Indian Institute of Technology, Roorkee as at 31 March 2010 and Income and Expenditure Account and Receipts and Payment Account for the year ended on that date. Preparation of these financial statements is the responsibility of the Institute's management. My responsibility is to express an opinion on these financial statements based on my audit.

I have conducted my audit in accordance with applicable rules and the auditing standards generally accepted in India. These standards require that I plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. I believe that my audit provides a reasonable basis for my opinion.

Based on our audit, I report that:

1. I have obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of my audit.
2. Subject to the observations in the Audit Report annexed herewith, I report that the Balance Sheet, the Income and Expenditure Account and Receipts and Payments Account dealt with by this report are properly drawn up and are in agreement with the books of accounts.
3. In my opinion and to the best of my information and according to the explanations given to me:
 - (i) The accounts give the information required under the prescribed format of accounts; and
 - (ii) The said Balance Sheet, Income and Expenditure Account and Receipts and Payment Account read together with the Accounting Policies and Notes thereon and subject to the matters mentioned in the Audit Report annexed herewith, give a true and fair view.
 - (a) In so far as it relates to the Balance Sheet of the state of affairs of the Indian Institute of Technology, Roorkee as at 31 March 2010; and
 - (b) In so far as it relates to the Income and Expenditure Account of surplus for the year ended on that date.


Principal Accountant General

Place: Dehradun

Date:


18 MAR 2011