

# **INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI**

## **MINUTES OF THE SEVENTY EIGHTH MEETING OF THE BOARD OF GOVERNORS HELD ON 27 OCTOBER 2014**

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The Seventy Eighth Meeting of the Board of Governors of the Institute was held on 27/10/2014 in the Board Room of IIT Guwahati and the following members were present:

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|------------------------------|-----------------------|
| 1. Dr. R. P. Singh           | Chairman              |
| 2. Prof. Gautam Biswas       | Director / Member     |
| 3. Prof. D.B.Goel            | Member                |
| 4. Prof. M.K.Chaudhuri       | Member                |
| 5. Mr. Pydah Venkatanarayana | Member                |
| 6. Prof. P. S. Robi          | Member                |
| 7. Dr. B. N. Raychoudhury    | Registrar / Secretary |

The other four members of the Board, Prof. Asis Dutta, Prof. Arun Chattopadhyay, Mr. H. K. Sharma and Er Liansanga, could not attend the meeting due to their prior engagements and leave of absence is noted.

The agenda for the day was taken up as below:

### **Item No. 1**

#### **Confirmation of the Minutes of the 77<sup>th</sup> Meeting of the Board of Governors of the Institute held on 12/7/2014**

The Minutes of the Seventy Seventh Meeting of the Board of Governors of the Institute was circulated amongst the members of the Board for their comments / observations.

**R 78/01/2014:** The Board **RESOLVED** that the minutes of the Seventy Seventh Meeting of the Board of Governors of the Institute held on 12/7/2014 be **CONFIRMED** with modifications, if any, suggested by the Board as enclosed in **Annexure – 1** (pg 27-48).

**Item No. 2**

**Follow up action of the decision of the 77<sup>th</sup> Meeting of the Board of Governors, IIT Guwahati including those pending from the previous meetings**

**R 78/02/2014:** The Board **RESOLVED** that the actions taken on the decisions of the Seventy Seventh Meeting of the Board of Governors held on 12/7/2014 including those pending from the previous meetings be **NOTED** as reported.

**Item No. 3**

**Recommendation of the Thirty First Meeting of the Finance Committee**

**R 78/03/2014:** The Board **APPROVED** the recommendations of the 31<sup>st</sup> Meeting of the Finance Committee held on 27/10/2014 as reported to the Board. A copy of the Minutes is given as **Annexure – 2** (enclosed separately).

The main highlights of the Minutes of the Thirty First Meeting of the Finance Committee are as follows:

- i) The Revised Estimates (RE) for the year 2014-15 amounting to ₹19355.16 Lakhs under Plan RE and ₹15560.00 Lakh under Non-Plan RE has been prepared. Further the Budget Estimate for 2015-16 both under Plan and Non-Plan head, with the Plan RE of ₹ 21500.00 lakhs and Non-Plan RE of ₹18000.00 Lakh has been prepared.
- ii) Carry forward of unspent Balance of ₹ 1156.52 Lakh (i.e. ₹1145.03 lakh as Object head-35(OH-35)+₹ 11.49 Lakh as Object Head-31 (OH-31) under Plan and ₹ 2304.43 Lakh under Non-Plan (Non –salary) head to the next financial year (i.e. 2014-15)
- iii) The expenditure under Plan and Non-Plan Heads for the Financial Year 2014-15 (upto 30/9/2014) has been reviewed.
- iv) Information regarding the replies against the queries under Separate Audit Report (SAR) as well as Inspection report (IR) which has been issued to the Institute by the Audit party of Director General of Audit, Central, Kolkata has been noted in both the meetings.
- v) Investment of the Earnest Money Deposits (EMD)/Security Deposit (SD) under

Head of Account EMD/SD Acc in the form of Short term Fixed Deposit (STDR) in a Nationalized Bank.

- vi) Revision of rates of Licence Fees for the quarters allotted to the Faculty and Staff of the Institute as per the terms of the Ministry's order No.18011/1/2013-Pol-III dated 21/11/2013.

#### **Item No. 4**

##### **Career Progression of Technical Officer in IITG**

**R 78/04/2014**: The Board **DEFERRED** this item for the time being and **ADVISED** to place it in the subsequent Board meeting, with draft policy in this regard.

#### **Item No. 5**

##### **Annual Report of the Institute for the year 2013-14**

The Board perused the Annual Report for the year 2013-14 (English version) and also the Annual Accounts for the year 2013-14 which had been audited by the statutory auditors, but the final Audit Certificate was awaited. The Board noted that the last date of submission of these reports to Ministry of HRD is 1/12/2014.

**R 78/05/2014**: The Board **RESOLVED** that the Annual Report for the year 2013-2014 of the Institute be **APPROVED**. The Board also **AUTHORISED** that Annual Accounts for the year 2013-14 of the Institute be **APPROVED** by the Chairman on behalf of the Board.

The Board further **ADVISED** the following on the matter of Annual Report from the year 2014-2015:

- i) to give an executive summary in the Annual Report from the year 2014-2015.
- ii) the executive summary so prepared should be printed separately so that it can be circulated to other agencies rather than giving the whole report.

#### **Item No. 6**

##### **Status Report on Faculty Reservation and de-reservation of un-filled posts for the year 2013-2014**

**R 78/06/2014**: The Board **RESOLVED** that the status of the faculty reservation and

de-reservation of un-filled posts for the year 2013-14 and proposal for the year 2014-15 of the Institute be **NOTED** as reported. The Board further **SUGGESTED** that Government of India (GOI)'s policy in this regard be kept in mind.

**Item No. 7**

**Appointment /creation of post of Associate Dean, Student Affairs**

**R 78/07/2014:** The Board **APPROVED** the appointment /creation of two new post of Associate Deans, Student Affairs in the Institute rather than one proposed; one for the female students and other for the male students and **AUTHORISED** the Director to make appointment to this positions.

**Item No. 8**

**Renaming of the Training and Placement Cell of the Institute to “Centre for Career Development (CCD)”**

The Board **DISCUSSED** the proposal of renaming of the Training and Placement Cell of the Institute to “**Centre for Career Development (CCD)**”.

**R 78/08/2014:** The Board **APPROVED** the proposal of renaming of the Training and Placement Cell of the Institute to “**Centre for Career Development (CCD)**”.

The Board further **OPINED** that in due course of time, office space, man power and different infrastructure facilities of the centre to be upgraded accordingly.

**Item No. 9**

**Engagement of Advisors/Consultants in the Centre for Career Development (CCD)**

The Board **DISCUSSED** the proposal of engaging advisors/consultants in the Centre for Career Development (CCD) for upskilling the students with different activities like 1) Lectures on General Knowledge and Group Discussions, 2) Articulation with the help of some advisors/consultants and 3) Lectures from Corporate Heads.

**R78/09/2014:** The Board **APPROVED** the proposal of Engagement of Advisors/Consultants in the Centre for Career Development (CCD) for upskilling the students with different activities.

The Board further **APPROVED** the proposal of inviting Professor R. Bhaskaran, Former Dean and Principal QIP Co-ordinator Managing Director, Technology Foundation and Professor in Charge T&P, IIT Kharagpur as a consultant for the forthcoming semester of the Institute.

The Board further **ADVISED** for inclusion of supporting consultants to assist Prof. R Bhaskaran. The Board also **OPINED** that while pursuing career development, the Institute(IITG) must keep in mind the theme 'Make in India' and 'Infrastructure in NER'.

**Item No. 10**

**Integrated Programme on Visionary Leadership in Manufacturing and Food Processing (VLMFP) in IITG together with the partnership of IIM Shillong and GIFU University, Japan**

The Board **DISCUSSED** the matter of starting an Integrated Programme on Visionary Leadership in Manufacturing and Food Processing (VLMFP) in IITG together with the partnership of IIM Shillong and GIFU University, Japan for studies related to various manufacturing processes, food processing related technical knowledge, fundamentals of economics and financial management, courses on inventory, marketing and decision making etc as subjects with appropriate academic credits.

The main features of the proposals are:

- i. It is proposed to start the programme in IITG as a Certificate course and then it may be upgraded to a Diploma course with duration of one year.
- ii. The targeted students are from the corporate sector of India and Japan.
- iii. The Tuition fee for this programme will be worked out at a later stage on the basis of the existing standard fees for such courses.

**R78/10/2014:** The Board **RESOLVED** that the starting of an Integrated Programme on Visionary Leadership in Manufacturing and Food Processing (VLMFP) in IITG together with the partnership of IIM Shillong and GIFU University, Japan be **APPROVED**.

The Board further **ADVISED** the following on the programme of **VLMFP**:

- a. to link the programme with **Corporate Social Responsibility (CSR)** i.e. to embrace responsibility for corporate actions and to encourage a positive

impact on the environment and stakeholders including consumers, employees, investors, communities, and others.

- b. to integrate the programme with **Central Food Technological Research Institute (CFTRI)** to pursue in-depth research and development in the areas of food science and technology.
- c. to appoint experienced persons from the Industry as Professor-In – Practice .

**Item No. 11**

**To Ratify the Approvals Accorded by the Chairman, BOG**

**(A) Recruitment Rules in respect of some Non-Faculty Post.**

**R 78/11A/2014:** The Board **RATIFIED** the recruitment rules approved by the Chairman BOG, IITG dated 1/8/2014 framed for the post of Midwife Gr.II, Midwife Gr.I, Assistant Coach Gr.I, Sr. Attendant, Sr. Driver, Physical Training Officer (PTO),Sr. Physical Training Instructor and Assistant Physical Education Officer as given as **Annexure-3** (pg 49-58.)

**(B) Approval to the reconstitution of Building & Works Committee (B&WC) of IIT Guwahati.**

**R 78/11B/2014:** The Board **NOTED** the approval of the Chairman, BOG on the reconstitution of Building & Works Committee (B&WC) of IITG for a period of three years with effect from 1/8/2014 as follows:

i	Director of the Institute	Chairman (Ex-officio)
ii	Superintending Engineer ( CPWD), Assam	Member (Ex-officio)
iii	Chief Engineer (B), PWD, Assam	Member (Ex-officio)
iv	Dean, Infrastructure, Planning and Management of the Institute	Member ( Ex-officio)
v	Dean (Admn)/ Deputy Director	Member ( Ex-officio)
vi	Prof. Anjan Dutta, Department of Civil Engineering,IIT Guwahati	Special Invitee for one year
vii	Mr. Mrinal K Das, Retd. Secretary, PWD, Govt. of Assam	Member
viii	Mr. Pramathesh Choudhury, Director Design (Retd.) PWD, Govt. of Assam	Member
ix	Registrar	Member Secretary (Ex-officio)

**(C) Approval to the Nomination of two new BOG nominees to the Finance Committee of the Institute.**

**R 78/11C/2014:** The Board **NOTED** the approval of the Chairman, BOG on the nomination of two new BOG nominees to the Finance Committee of the Institute for a period of two years with immediate effect. The two new BOG nominees to the Finance Committee are:

1. Prof. Dilip Kr. Barua, Former Principal of Cotton College, Guwahati , Former Joint Director of Assam Administrative Staff College and also a reputed Economist of Assam.
2. Prof. Prabin Kr Bora, Department of Electronics and Electrical Engineering, IITG.

**(D) Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Physics**

**R 78/11D/2014:** The Board **NOTED** the approval of the Chairman, BOG on the recommendation of the Selection Committee for the post of Faculty Position in the Department of Physics in IIT Guwahati as below:

Sl. No.	Name	Recommended for	Initial Pay (Rs.)
1.	Dr. Girish S Setlur	Professor	As per rules
2.	Dr. Perumal Alagarsamy	Professor	As per rules
3.	Dr. Sunil Kr Khijwania	Professor	As per rules
4.	Dr. Pamu Dobbidi	Associate Professor	As per rules
5.	Dr Ashwini Kumar Sharma	Associate Professor	As per rules
6.	Dr. Tarak Nath Dey	Associate Professor	As per rules
7.	Dr. Anupam Kundu	Assistant Professor	Basic:₹30000/- AGP:₹8000/-
8.	Dr.Uday Narayan Maiti	Assistant Professor	Basic:₹30,000/-AGP ₹8,000/-
9.	Dr.Bibhas Ranjan Majhi	Assistant Professor	Basic:₹30,000/-AGP ₹8,000/-

**(E) Approval to the recommendations of the Selection Committee for the Post of Technical Officer Gr-II (TO Gr-II)**

**R 78/11E/2014:** The Board **NOTED** the approval of the Chairman, BOG on the

recommendation of the Selection Committee for the post of **Technical Officer Gr-II (TO Gr-II)** in IIT Guwahati as below:

Sl. No.	Name	Department	Scale of Pay	Initial Basic Pay
1.	Mr. Debarshi Baruah	Centre for Energy	Pay: PB3 ₹15600– 39100 GP: ₹ 5400/-	Initial Pay as per rule
2.	Ms. Dolly Gogoi	Central Instruments Facility		
3.	Dr. N.K.Prasanna Kumari	Centre for the Environment		
4.	Dr. Pranjoli Das	Centre for Nanotechnology		
5.	Mr. Harsharaj Biswanath	Dept. of Chemical Engineering		
6.	Ms. Ritumoni Kalita			
7.	Mr. Madhuriya Pratim Das	Dept. of Electronics and Electrical Engineering		
8.	Mr. Rituraj Saikia	Dept. of Mechanical Engineering		
9.	Mr. Pranjol Paul			
10.	Mr. Bhriguraj Borah	Dept. of Computer Science & Engineering		
11.	Mr. Nanu Alan Kachari			
12.	Ms. Abhilasha M Baruah	Dept. of Chemistry		
13.	Ms. Jonali Saikia	Dept. of Civil Engineering		
14.	Mr. Samarjit Kalita			
15.	Mr. Kuldeep Kalita (contract)			
16.	Mr. Jishnu Krishna Ghosh	Computer and Communication Centre		
17.	Mr. Dhruvajyoti Pathak			

### **Item No 12**

#### **Items approved by the Director**

**R 78/12/2014**: The Board **NOTED** the following items (**a to n**) approved by the Director:

- a. **Attendance of Conference / Seminar etc. abroad**
- b. **Appointment and Extension of Dean, Assoc. Dean Positions, Chairman, HOD, Preparatory Co-ordinator, Faculty-Incharge positions** as mentioned below:



<b>Sl. No.</b>	<b>Name</b>	<b>Position</b>	<b>Period of Appointment / Extension</b>
1.	Prof. Pinakeswar Mahanta, Department of Mechanical Engineering	Dean of Faculty Affairs	Appointed for a period of three years w.e.f 1/9/2014
2.	Prof.M.Guru Prem Prasad, Department of Mathematics	Associate Dean ,Faculty Affairs	Appointed for a period of three years w.e.f.1/9/2014
3.	Prof. Anoop Kr. Dass, Department of Mechanical Engineering	Head, Department of Mechanical Engineering	Appointed for a period of three years w.e.f 3/9/2014
4.	Prof. S.V.Rao, Department of Computer Science and Engineering	Head, Computer and Communication Centre	Appointed for a period of three years w.e.f 1/9/2014
5.	Prof. Diganta Goswami, Department of Computer Science & Engineering	Head, Department of Computer Science & Engineering	Appointed for a period of three years w.e.f 1/9/2014
6.	Prof. Gopal Das, Department of Chemistry	Head, Centre for Environment	Extended for 1 year from 1/8/2014 till 31/7/2015
7.	Prof. Biplab Mondal, Department of Chemistry	Chairman JEE (Advanced)-2015	
8.	Dr. Sandip Paul, Department of Chemistry	Preparatory Co-ordinator for the session 2014-2015	
9.	Prof. U.K.Saha	FacultyIncharge, IITG-TIC	w.e.f.9/1/2014 till further order
10.	Prof. Chitralkha Mahanta	HOD, Electronics and Electrical Engineering	For three years w.e.f 1/11/2014

**c. Confirmation of Faculty Members as mentioned below:**

<b>Sl. No.</b>	<b>Name</b>	<b>Post</b>
1.	Dr. S.B.Santra	Professor, Physics
2.	Dr. Pratima Agarwal	Professor, Physics
3.	Dr. Amarendra Kumar Sarma	Associate professor, Physics
4.	Dr. Padma Kumar Padmanabhan	Associate Professor, Physics
5.	Dr. Bipul Bhuyan	Associate Professor, Physics
6.	Dr. Dilip Pal	Associate professor, Physics

7.	Dr. Arnab Sarkar	Assistant Professor, Computer Science & Engineering
8.	Dr. Shyam Prosad Biswas	Assistant Professor, Chemistry
9.	Dr. Manish Kumar Goyal	Assistant Professor, Civil Engineering
10.	Dr. Manas Das	Assistant Professor, Mechanical Engineering
11.	Dr. Pahi Saikia	Assistant Professor, Humanities & Social Science
12.	Dr. Hrishikesh Prabhakar Gadgil	Assistant Professor, Mechanical Engineering
13.	Dr. Dipankar Narayan Basu	Assistant Professor, Mechanical Engineering
14.	Dr. Sachin Singh Gautam	Assistant Professor, Mechanical Engineering
15.	Dr. Ramesh Kumar Sonkar	Assistant Professor, Electronics & Electrical Engineering
16.	Dr. Pratyosh Kumar	Assistant Professor, Mathematics

**d. Confirmation of Non-faculty Members** as mentioned below:

Sl. No.	Name	Post
1.	Ms. Abhilasha Mohan Baruah	Technical Superintendent (GP ₹4600/-)
2.	Mr. Basab Bijoy Purkayastha	
3.	Mr. Indrajit Talukdar	
4.	Mr. Naba Kr. Boro	
5.	Mr. Raktajit Pathak	
6.	Mr. Dipak Kr. Barman	
7.	Mr. Prasun Kr. Bhattacharjee	
8.	Mr. Santanu Majumdar	
9.	Mr. Surendra Mohan Saloi	Jr. Superintendent (GP ₹ 4200/-)
10.	Mr. Kumud Ch. Das	
11.	Mr. Kakali Roy	
12.	Mr. Arabinda Dewry	
13.	Mr. Souvik Chowdhury	
14.	Ms. Archana Rajbongshi	

15.	Mr. Naba Kr. Malakar	
16.	Mr. Nabajyoti Dutta	
17.	Mr. Dhiren Ch. Sarma	
18.	Mr. Dibakar Pratim Deb	
19.	Ms. Kanak Sarma	Jr. Accounts Officer ( GP ₹4200/-)
20.	Mr. Dipumoni Hazarika	Sr. Assistant (GP ₹ 2800/-)
21.	Mr. Sailen Das	
22.	Mr. Dhruva Kr.Saikia	
23.	Mr. Kumud Deka	
24.	Mr. Jayanta Kr. Kalita	
25.	Mr. Anjan Malla Chaudhury	
26.	Mr. Bablu Das	
27.	Ms. Pranita Kalita	
28.	Ms. Arpana Das	
29.	Mr. H .Jamginmuan	
30.	Mr. Sanjib Kr.Saikia	
31.	Mr. Nilyotpal Deka	
32.	Ms .Bandana Khataniar	
33.	Mr. Sunil Sarma	
34.	Mr. Anup Kumar Das	
35.	Mr. Chandraswami Bhaskar Bora	
36.	Mr. Swapan Kr. Debnath	
37.	Mr. Pankaj Goswami	
38.	Ms. Barnali Deka Gogoi	
39.	Dr. Arun Ch. Borsaikia	Technical Officer Gr.I (GP ₹6600/-)
40.	Mr. Chandan Borgohain	
41.	Dr. Sidananda Sarma	
42.	Mr. Dibyajyoti Dutta	Assistant Executive Engineer (GP₹5400/-)
43.	Mr. Amitabh Bordoloi	Technical Superintendent (GP ₹4600/-)
44.	Mr. Sidananda Sonowal	

- e. **Extension of period of contract appointment of Scientific Officers Gr.II** as mentioned below:

Sl. No.	Name	Period of Extension		Ref. No. of Initial Appointment
1.	Md. Jeherul Islam	1/11/2014	31/10/2016	R&P/92/08-09/3083 dated 25/8/2009
2.	Mr. Iqbal Inam	1/10/2014	30/9/2016	R&P/92/08-09/3082 dated 25/8/2009

f. **Approval to the recommendations of the Selection Committee for the posts of Junior Assistant /Junior Accountant as mentioned below:**

Sl. No.	Name	Scale of Pay
<b>Junior Assistant</b>		
1.	Mr. Bhaibyajit Borgohain	<b>PB1 ₹5200-20200/-,GP = 2000/-</b>
2.	Mr. Tanmoy Nath	
3.	Mr. Parag Jyoti Kalita	
4.	Mr. Pranab Rajbongshi	
5.	Mr. Dipankar Sharma	
6.	Mr. Minakshi Borah	
7.	Mr. Jnanendra Ballav Goswami	
8.	Mr. Binod Upadhyay	
9.	Ms. Gouri Singh Munda	
10.	Mr. Bhaskar Jyoti Sonowal	
11.	Mr. Tapu Ghosh	
12.	Mr. Krishnoo Kr. Bhattacharyya	
13.	Ms. Mithu Lakra	
14.	Mr. Raju Talukdar	
15.	Mr. Nilotpal Sarma	
16.	Mr. Amarendra Das	
17.	Ms. Mithumoni Kalita	
18.	Mr. Hemonta Patir	
19.	Mr. Ringkhang Baglari	
20.	Ms. Bandita Sarma	
21.	Ms. Chinmayee Pathak	
22.	Mr. Manash Pratim Barman	
23.	Mr. Maradona Moshahary	
24.	Mr. Himankhu Dutta	
25.	Ms. Nilakshi Goswami	

<b>Junior Accountant</b>		
1.	Ms. Dipti Deka	<b>PB1 ₹5200-20200/-, GP = 2400/-</b>
2.	Mr. Kajal Lata Brahma	
3.	Mr. Hemanta Kr. Nath	
4.	Ms. Kashturi Barman	
5.	Ms. Priya Devi	

- g. **Approval to the recommendations of the Selection Committee for the posts of Junior Technical Superintendent (Physics) as mentioned below:**

<b>Sl. No.</b>	<b>Name</b>	<b>Scale of Pay</b>
1.	Ms. Minakshi Chutia	PB2:₹9300-34800/-, GP=₹4200/-(on contract)
2.	Mr. Prasenjit Dey	PB2 :₹9300-34800/-, GP=₹4200/-

- h. **Lien period of Dr. Deba Kr. Sarma, Workshop Superintendent** of this Institute has been extended further for a period of one year w.e.f 23/9/2014 to 22/9/2015

- i. **Approval to the recommendation of Selection Committee for appointment to the post of Students' Counsellor as mentioned below:**

<b>Sl. No.</b>	<b>Name</b>	<b>Recommended for</b>	<b>Scale of Pay</b>
1.	Ms. Pallabita Barooah Chowdhury	Students' Counsellor	<b>restricted from viewing as per policy adopted by IIT council</b>

- j. **Approval to the recommendations of the Selection Committee for Internal recruitment to the various non-faculty posts as mentioned below:**

**1. Physical Training Officer**

<b>Sl. No.</b>	<b>Name</b>	<b>Post</b>	<b>Scale of Pay</b>
1.	Mr. Romen Ch. Dutta	Physical Technical Officer	PB2 ₹9300-34800/-, GP = 5400/-

**2. Senior Technical Superintendent**

<b>Sl. No.</b>	<b>Name</b>	<b>Post</b>	<b>Scale of Pay</b>
1.	Mr. Lokesh Chakravorty	Senior Technical Superintendent	PB2 ₹9300-34800/- GP = 4800/-
2.	Mr. Nandan Kanan Das		

3.	Mr. Shajumon MS		
4.	Mr. Utpal Kr. Sarma		
5.	Mr. Pranab Jyoti Goswami		
6.	Mr. Amal Kalita		
7.	Mr. Naba Kr. Thakuria		
8.	Ms. Hemanta Kr. Nath		
9.	Ms. Dipika Barbara Timung		

**3. Superintendent**

Sl. No.	Name	Post	Scale of Pay
1.	Ms. Leoni Choudhury	Superintendent	PB2 ₹9300-34800/- GP = 4600/-
2.	Mr. Manasjyoti Pathak		
3.	Mr. Debabrata Purkayastha		
4.	Mr. Dibendu Debnath		
5.	Mr. Narayan Kalita		
6.	Ms. Banashree Patgiri		
7.	Mr. Supriya Das		
8.	Mr. Monojit Bhattacharjee		
9.	Mr. Pradip Kr Sinha		
10.	Mr. Lankeswar Boro		
11.	Mr. Rajib Lochan Gogoi		
12.	Mr. Bhabendra Sarma		
13.	Mr. Basanta Kr. Kalita		
14.	Mr. Binod Ch. Kalita		
15.	Syed Farid Ali		
16.	Ms. Nibha Devi		
17.	Mr. Bimal Das		
18.	Mr. Kumud Ch. Das		
19.	Mr. Surendra Mohan Saloi		

**4. Junior Accounts Officer**

Sl. No.	Name	Post	Scale of Pay
1.	Mr. Sunil Kr. Sarma	Junior Accounts officer	PB2 ₹9300-34800/- GP = 4200/-
2.	Mr. Amalesh Bhattacharyya		
3.	Mr. Jnanajyoti Barman		
4.	Mr. Rajkamal Sarmah		
5.	Mr Anup Kr. Das		

6.	Mr. Dharmendra Singh		
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**5. Junior Superintendent**

Sl. No.	Name	Post	Scale of Pay
1.	Ms. Shamshad Begum	Junior Superintendent	PB2 ₹9300-34800/- GP = 4200/-
2.	Mr. Sailen Das		
3.	Mr. Dhruva Kr. Saikia		
4.	Mr. Sridhar Samal		
5.	Mr. Raju Singha		
6.	Mr. Alok Majumdar		
7.	Mr. Dipumoni Hazarika		
8.	Mr. Jayanta Kr. Kalita		
9.	Mr. Mohan Ch.Nath		
10.	Mr. Kumud Deka		
11.	Mr. Anjan Malla Chaudhury		
12.	Mr. Bablu Das		
13.	Mr. Ganesh Kalita		
14.	Ms. Pranita Kalita		
15.	Mr. Manas Kumar Sarma		
16.	Mr. Bitan Seal		
17.	Mr. Bishnuraj Sharma		
18.	Mr. Nilyotpal Deka		
19.	Mr. H .Jamginmuan		
20.	Mr. Chandraswami Bhaskar Bora		
21.	Mr. Swapan Kr. Debnath		
22.	Ms. Bandana Khataniar		
23.	Mr. Sanjib Kr. Saikia		
24.	Ms. Arpana Das		
25.	Mr. Monjit Bora		
26.	Ms. Krishangi Kalyani Bhuyan		
27.	Ms. Barnali Deka Gogoi		
28.	Mr. Pankaj Goswami		

**6. Mid Wife Gr.I**

Sl. No.	Name	Post	Scale of Pay
1.	Ms. Ila Bati Das	Midwife Gr.I	PB-2 ₹9300-34800,GP=₹4200/-

**7. Assistant Coach Gr. I**

Sl. No.	Name	Post	Scale of Pay
1.	Mr. Rajib Dey	Assistant Coach Gr.I	PB1 ₹5200-20200/-,GP = 2800/-

**8. Security Officer**

Sl. No.	Name	Post	Scale of Pay
1.	Ms.Manashri Majumdar Bordoloi	Security Officer	PB2 ₹9300-34800/-,GP = 4600/-

- k. Approval to the recommendations of the Selection Committee for the post of Jr. Engineer as mentioned below:**

Sl. No.	Name	Post	Scale of Pay
1.	Mr. Partha Pranjal Bharali (Civil)	Junior Engineer	PB2 ₹9300-34800/- GP = 4200/-
2.	Mr. Indrajit Das (Civil)		
3.	Mr. Biswajit Saikia ( Electrical)		
4.	Mr. Diganta Das (Civil)		
5.	Mr Monoranjan Das (Civil)		
6.	Mr. Riyajul Islam (Electrical)		

- l. Enhancement of Dearness Allowance/ Relief from 100% to 107% w.e.f. 1/7/2014**
- m. Approval to the medical reimbursement exceeding the Institute limit of ₹ 2.5 lakhs, i.r.o. Mr. Madhuriya Das, TO Gr. II of the Institute which amounts to ₹2,65,228.00 ( Two Lakhs Sixty Five Thousand Two Hundred and Twenty Eight only) and ₹3,00,303.00(Three Lakhs Three Hundred and Three only) for treatment of Mr. Durga Hazarika ,father and dependent of Mr Prasanta Hazarika, an employee of the Institute, before the implementation of General Medical Insurance Scheme (GMIS) of the Institute.**
- n. Approval to the revised rule pertaining to income limit in respect of dependent parents whose income is less than ₹ 3500/-pm(i.e. up to ₹ 3499/-) irrespective of any other allowance/relief received thereon, in line with the CGHS, GOI rule.**

**Item No.13**

**Minutes of the Hundred Seventh and Hundred Eighth meeting of the Senate of the**



Institute held on 10/7/2014 and 11/7/2014 respectively.

**R 78/13/2014:** The Board **RESOLVED** that the Minutes of the Hundred Seventh and Hundred Eighth meeting of the Senate of the Institute held on 10/7/2014 and 11/7/2014 respectively of the Institute be **NOTED**.

**Item No. 14**

**Items for Reporting to the Board**

**R 78/14/2014:** The Board **NOTED** the following matters (**A to K**) as reported:

**(A) Modified Recruitment Rules for some Non Faculty Post of IIT Guwahati**

As per Resolution R/77/20/2014 of the 77<sup>th</sup> BOG meeting, the Board approved the promotional scheme (revised) for the Non teaching Staff (Group-B,C & Erstwhile D category posts) of the Institute with some modifications of the existing Recruitment Rules (RRs) as applicable. The Recruitment Rules so modified is placed as **Annexure – 4 P** (59-66).

**(B) General Medical Insurance Scheme for Employees students and retired employees**

The Group Medical Insurance Scheme (GMIS) of the Institute has become effective from 1<sup>st</sup> of August, 2014 for a period of one year. The main features of the Medical Insurance Scheme are as follows:

1. Coverage up to ₹ 1,00,000/- in a year for each employee including his/her eligible dependent family members (that is, total coverage per family, irrespective of the number of members in the family).
2. Option of additional top-up coverage in the block of ₹ 1,00,000/- up to ₹ 5,00,000/- can be availed on an extra premium payment basis.
3. This facility will also cover retired/deceased employees and their families opting for any of GPF/CPF/NPS retirement schemes. The facility will be on payment basis.
4. Compulsory coverage up to ₹ 50,000/- to each student on payment basis during the policy period.
5. No upper or lower age limit. Day 1 coverage for new born babies.
6. 100% cashless treatment at Network hospitals.
7. Coverage for all pre-existing diseases.

8. Pre and Post hospitalization are included under coverage.
9. Domiciliary hospitalization is covered (treatment while at home due to inability to move or due to lack of hospital room).
10. Both Congenital and Psychiatric disorders are also covered.
11. Covers maternity expenses (without waiting period of 9 months). Higher slabs for higher coverage.
12. Coverage of some specific Day care procedures.
13. For some critical illness, an admissible corporate buffer should be offered. At the discretion of the Institute, buffer utilization is to be made across the beneficiaries without any upper limit.

In this regard, the basic and top-up premium rates as quoted by M/s Oriental Insurance Co. Ltd. for providing insurance coverage are as follows:

**I) Basic Coverage**

Sl. No.	Category	Basic Sum Insured (in ₹)	Premium Amount (in ₹)
1.	Employee	1,00,000/-	2443/-
2.	Retired employee	1,00,000/-	2443/-
3.	Students below 25 years	50,000/-	653/-
4.	Students above 25 years	50,000/-	685/-

**II) Top-up Coverage**

Sl. No.	Category	Additional Sum Insured (in ₹)	Premium Amount (in ₹)
1.	Employee and Retired employee	1,00,000/-	2443/-
2.	Employee and Retired employee	2,00,000/-	4271/-
3.	Employee and Retired employee	3,00,000/-	6046/-
4.	Employee and Retired employee	4,00,000/-	7652/-
5.	Employee and Retired employee	5,00,000/-	9257/-

As per contract agreement of Group Medical Insurance Scheme (GMIS) of the Institute, Insurer shall submit the monthly statement to the Insured with the following details: (i) the claims made by the individuals of the group (ii) the date-wise settlements (iii) the respective amounts, and (iv) details of grievances received, disposed and pending under the policy. A performance committee has also been constituted to monitor and to recommend /suggest future course of action with regard to GMIS.

In view of the GMIS, the OPD rules need to be revisited. A committee is already constituted to reframe the rules for OPD.

**(C) Extension of service of Prof. Govinda Bol Shrestha, a Visiting Professor (on contract) in the Department of Electronics and Electrical Engineering**

The service of Prof. Govinda Bol Shrestha, a Visiting Professor (on contract) in the Department of Electronics and Electrical Engineering has been extended for another two years with effect from 17/8/2014 to 16 /8/ 2016 under the following terms and conditions :

1. A monthly consolidated salary of **restricted** w.e.f. 17/8/2014 to 16/8/2015 (with standard deduction applicable).
2. Monthly consolidated salary will be considered on the basic pay of **restricted** plus other admissible allowances to be decided at the time and will be fixed accordingly w.e.f. 17/8/2015 to 16/8/2016.
3. Other terms of the initial appointment letter remains the same.

**(D) Extension of service of Prof. Amitabh Chatterjee, a Visiting Assistant Professor (on contract) in the Department of Electronics and Electrical Engineering.**

The service of Dr. Amitabh Chatterjee, a Visiting Assistant Professor (on contract) in the Department of Electronics and Electrical Engineering has been extended for another year with effect from 25/3/2014 till 24/3/2015 with a monthly consolidated salary of **restricted** under the same terms and conditions of the initial appointment.

**(E) Details of research work undertaken by each department in the last five years, along with success stories**

Research activities of the Institute in terms of consultancy project, R&D project has shown a marked increase in recent years. Details of total number of R&D projects and consultancy projects undertaken during the last five years is given as **Annexure – 5** (pg.67-94) and **Annexure – 6** (pg.95-102) respectively.

**(F) Number of patents registered department wise.**

The Board **NOTED** the number of patents applied in IITG till date and number of patents granted so far department wise ,details of which is given as **Annexure – 7** (pg.103-106). The Board further **ADVISED** the following on the matter of patents:

- i) Intellectual Property Right (IPR) Cell be strengthened,
- ii) To build a knowledgeable resource group in the field of IPR in IITG and for its guidance and implementation a renowned personality adept to this field, should be engaged.

The Board further recommended the name of Prof. Prabuddha Ganguli to appoint as IPR Professor in IITG. Prof. Prabuddha Ganguli is a leading international expert on IPR and a Consultant to the World Intellectual Property Organisation (WIPO) for IPR capacity building programmes in developing countries, an elected Fellow of the Maharashtra Academy of Sciences. He is the CEO of his consulting firm "VISION-IPR" offering services in management of Intellectual Property Rights(IPR), information security and knowledge management. He also holds the MHRD IPR chair Professorship at Tezpur University, Assam, India. On August, 2014 he was given "The Lifetime Achievement Award for his contributions in the field of IPR" by "LEGAL ERA" in India.

**(G) Implementation of a pilot project on Ishān Vikās and Udaan in IITG**

As per the instruction of Hon'ble HRD minister, a pilot programme on 'Ishan Vikash' and 'Udan' has been decided to start from winter 2014 in IITG.

**The main aims of the pilot project is to -**

- Introduce School children from the North-Eastern States to the Best Institutions of Higher Education in India to encourage them to take Science, Technology, Engineering and Mathematics courses,
- Arrange Internship for the Engineering College Students of North- Eastern States in various Institutes of National Importance,

- Mentoring Girl Students to Compete for Admission at Premier Engineering Colleges,
- Get to understand why students can/ can't perform from the three perspectives of curriculum design, curriculum transaction and curriculum assessment,
- Feedback the understanding for curriculum reforms and teacher training programs.

A detailed report on the project is given as **Annexure – 8** (P107-122) .

**(H) Action Taken on the Advice of PM at the Visitor's Conference**

Hon'ble Prime Minister of India suggested the IITs to focus on certain issues, during the Visitor's Conference at Rashtrapati Bhavan which are as follows:

- (i) Involvement of Alumni in the Development Activities of IITs
- (ii) Early Introduction to Research in the Areas of National Need
- (iii) Adopting a Local Village (under Unnat Bharat Abhijan),
- (iv) Adopting local Colleges
- (v) Intense involvement of IITs in R&D activities especially in Defence, Affordable Health Care, Affordable Housing, Railways and Electronic Hardware.

The strategies to be developed by IITG as an Action Taken Report on the above suggested points is given in details in the **Annexure – 9** (pg 123-136).

**(I) General Governance and discipline prevailing in the campus**

The Board **NOTED** the report submitted on General Governance and discipline prevailing in the campus.

**(J) Cleanliness of the hostels, quality of food and cleanliness and upkeep of the entire campus**

The Board **NOTED** the report submitted on Cleanliness of the hostels, quality of food and cleanliness and upkeep of the entire campus. The detail report is given as **Annexure –10** (pg 137-140) , **Annexure –11** (pg 141-144) and **Annexure –12** (pg 145-146) respectively.

**(K) Progress of construction works and future plans**

The Board NOTED the progress of construction works and future plans. List of Progress report of major, ongoing & new construction/engineering works completed in the Institute till date is given as **Annexure – 13** (pg147-152).

**Item No. 15**

**Promotional Scheme (Revised) for the Non-teaching staff (Group-B, C & erstwhile D category posts) of the Institute with appropriate pay band, grade pay and designation -Modification thereof**

The Board **DELIBERATED** on the proposed modification on promotional scheme (revised) for the Non-Teaching staff (Group-B, C & Erstwhile D category posts) of the Institute which was earlier approved in the 77<sup>th</sup> BOG meeting to ensure adequate opportunity for career up-gradation to the technical staff like Junior Technician/ Junior Mechanic / Junior Laboratory Assistant beyond Senior Technician/ Senior Mechanic / Senior Laboratory Assistant.

**R78/15/2014**: The Board **APPROVED** the proposed modification on the promotional scheme (revised) as given as **Annexure –14** (pg 153-156) for the Non-teaching Staff (Group-B, C & Erstwhile D category posts) of the Institute .Necessary Recruitment Rule (RR) for the same along with the post of Junior Technical Officer ( JTO) and revised RR for the post of Deputy Librarian ( DL) have been placed as **Annexure- 15** (pg 157-160). The Board further, **APPROVED** the proposal that in the composition of DPCs (wherever applicable) as per existing RRs for different posts, Director's nominee may be added to the Deputy Director/Dean Administration, thereby modifying it as Deputy Director/Dean Administration/ Director's nominee.

**Item No. 16**

**Creation of non-faculty posts: Re-appropriations thereof**

The Board **EXAMINED** the proposal for creation of non-faculty posts in the Institute as per norms agreed to by the Ministry of HRD and Re-appropriations thereof.

**R 78/16/2014**: The Board **RESOLVED** that the proposal of re-appropriation of posts, which was last created as per approval of the 77<sup>th</sup> BOG meeting of the Institute held on 12/7/2014 as placed at **Annexure –16**(pg 161-164) be

**APPROVED.** As per norms agreed to by the Ministry of HRD, the Institute can have non-faculty posts in the ratio of 1:1.1 of sanctioned faculty posts. Faculty posts in turn are decided by the ratio of 10:1 of actual number of students to the number of faculty posts. The Institute had 4891 students in 2013-14. So, the sanctioned faculty posts were 489 and the allowed numbers of non-faculty posts are 538. The Institute has already created 532 posts as per the above norms.

**Item No. 17**

**Proposed guidelines for awarding of Professor Emeritus and Conferring of Honorary Professor Emeritus to Prof. D.N. Buragohain founder Director of IITG**

The Board **DELIBERATED** on the matter of conferring of honorary “Professor Emeritus” to former and founder Director of the Institute Prof. D.N.Buragohain and adopting the Scheme for Emeritus Professor at IITG.

**R78/17/2014:** The Board **APPROVED** the proposal of conferring honorary “Professor Emeritus” to former and founder Director of the Institute Prof. D.N.Buragohain. The Guidelines and Procedures for the Award of Professor Emeritus (Honorary) is given as **Annexure –17**(pg 165-166).

The Board further **RESOLVED** that the New Scheme for Emeritus Professor at IITG be **APPROVED**. The objective of the scheme in brief is as follows:

- a. it is intended to utilize the services of highly qualified and experienced Superannuated Professors of the Institute as well as from other Institutions in India who have been actively engaged in research and teaching improvement programmes ,
- b. to enable them to pursue active research in their field of specialization,
- c. to undertake curriculum development, and participate in the monitoring and evaluation of existing programmes and development of new programmes at the Institute within their field of competence. The detail account of the scheme is placed as **Annexure -18** (pg 167-168).

Apart from the above, the Board further **ADVISED** to introduce another scheme of appointing **Professor of Eminence** from among the persons who contributed significantly as an academecian or from other fields like R&D, Industry etc and for the same, nomination criteria are to be planned.The Board also **ADVISED** that while conferring“Professors of Emeritus” status, the field should be kept wide open to eminent Indians & Non-Indians.

**Item No. 18**

**Proposal for Revision of Existing PDA Rules**

The Board **DISCUSSED** on the proposal of revision of existing rules pertaining to Professional Development Allowance (PDA).

**R 78/18/2014**: The Board **RESOLVED** that the proposal of revision of existing rules as placed at **Annexure –19** (pg 169-178), pertaining to Professional Development Allowance (PDA) be **APPROVED**.

**Item No. 19**

**Proposal for Establishment of SAMEER Centre at IITG campus and Memorandum of Understanding (MOU) thereof**

The Board **DISCUSSED** the matter of establishment of **SAMEER** centre at IITG and necessary Memorandum of Understanding (MOU) thereof.

**R 78/19/2014**: The Board **APPROVED** the proposal of establishment of SAMEER centre at IITG campus and also **RESOLVED** that the Memorandum of Understanding (MOU) placed before the Board be **APPROVED** in principle which is placed as **Annexure –20**(pg 179-182) and any other changes incorporated in the MOU during the course of time will be ratified in the subsequent BOG meeting.

Society for Applied Microwave Electronics Engineering & Research (SAMEER) is an autonomous R & D institute under the Department of Electronics and Information Technology (DeitY)), Ministry of Communications and Information Technology, Government of India since 1984.

The main objectives of **SAMEER** are:

- 1) It contributes to the growth of technology development in the country through its persistent efforts in pursuing quality research and product development.
- 2) It undertakes and executes sponsored projects for various Government agencies, public sector undertakings and industries.
- 3) It has contributed in the development of many radio frequency systems and products which are required by Defence and Space sectors.
- 4) It has also developed technologies which has high societal impact. In the instrumentation , Optoelectronics, Communications, Radar systems, RF/Microwave/MM waves/ industrial systems and EMI EMC.



At present, there is considerable research activity in the area of microwave technology at IITG. The facilities of SAMEER will be a great asset to the faculty and students of IITG. Also, the R & D staff of SAMEER could find the academic atmosphere and activities of the Institute a source of ideas for innovation and experimentation. Thus, the establishment of SAMEER centre on the IITG campus will lead to a very fruitful interaction and collaboration between the two and will benefit both.

## **Item No. 20**

### **Visiting Artists in Residence**

The Board **DISCUSSED** about the total personality development of the students of the Institute along with their mental stress due to growing competition to fare well in the semesters.

To overcome the mental stress the Director has proposed to introduce Performing Arts in the curriculum of IITG.

Performing Art gives a significant boost to the dormant creative capacity of the individuals. It diverts the students from mental chaos, and helps in emotional development and behaviour. Students today are facing stress of varied nature and introduction of Performing Arts in the curriculum would help in management of stress. In addition to improving the mental health of the students, this will also help the physically challenged students to complete the requirements of SA 101 and SA 102.

**R 78/20/2014:** The Board has **AGREED** in principle the proposal of recruiting "Visiting Artists in Residence" by engaging multiple experts in the field of Performing arts with appropriate remuneration at the level of Assistant Professor or above.

The Board further **ADVISED** to place the proposal related to SA101 and SA102 in the Senate of the Institute for introducing Performing Arts as a course in the curriculum of the students.

## **Item No. 21**

### **Naming the Institute's Central Library as "Lakshminath Bezbaroa Central Library"**

The Board **DISCUSSED** the proposal of naming the Institute's Central Library after the great Assamese personality and celebrated pioneer of Modern Assamese

literature **Lakshminath Bezbaroa.**

**R 78/21/2014:** The Board **APPROVED** the proposal of naming the Institute's Central Library as "**Lakshminath Bezbaroa Central Library**" after the great Assamese personality and Sahityarathi Lakshminath Bezbaroa who was an expert in all branches of Assamese literature and was honoured by a unique title of "Rasaraj", for his ever popular satirical writing under the pen name "Kripaabar Borbaroa".

**(B. N. Raychoudhury)**  
**Registrar & Secretary**  
**Board of Governors, IIT Guwahati**



**शासी मंडल की 77 वीं बैठक का कार्यवृत्त**  
**MINUTES OF THE SEVENTY SEVENTH MEETING OF THE BOARD OF GOVERNORS**

**तारीख : 12 जुलाई 2014**

**DATE : 12 July 2014**

**भारतीय प्रौद्योगिकी संस्थान गुवाहाटी**  
**INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI**

# **INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI**

## **MINUTES OF THE SEVENTY SEVENTH MEETING OF THE BOARD OF GOVERNORS HELD ON 12 JULY 2014**

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The Seventy Seventh Meeting of the Board of Governors of the Institute was held on 12/7/2014 in the Board Room of IIT Guwahati and the following members were present:

- |                              |                       |
|------------------------------|-----------------------|
| 1. Dr. R. P. Singh           | Chairman              |
| 2. Prof. Gautam Biswas       | Director / Member     |
| 3. Prof. D.B.Goel            | Member                |
| 4. Mr. Pydah Venkatanarayana | Member                |
| 5. Prof. P. S. Robi          | Member                |
| 7. Prof. Arun Chattopadhyay  | Member                |
| 8. Dr. B. N. Raychoudhury    | Registrar / Secretary |

The other four members of the Board, Prof. Asis Dutta, Prof. M.K.Choudhury, Mr. H. K. Sharma and Er Liansanga, could not attend the meeting due to their prior engagements and leave of absence is noted.

The agenda for the day was taken up as below:

### **Item No. 1**

#### **Confirmation of the Minutes of the 76<sup>h</sup> Meeting of the Board of Governors of the Institute held on 25/2/2014**

The Minutes of the Seventy Sixth Meeting of the Board of Governors of the Institute was circulated amongst the members of the Board for their comments / observations.

**R 77/01/2014:** The Board **RESOLVED** that the minutes of the Seventy Sixth Meeting of the Board of Governors of the Institute held on 25/2/2014 be **CONFIRMED** as enclosed in **Annexure – 1** (not enclosed).

**Item No. 2**

**Follow up action of the decision of the 76<sup>th</sup> Meeting of the Board of Governors, IIT Guwahati including those pending from the previous meetings**

**R 77/02/2014:** The Board **RESOLVED** that the actions taken on the decisions of the Seventy Sixth Meeting of the Board of Governors held on 25/2/2014 including those pending from the previous meetings be **NOTED** as reported.

**Item No. 3**

**Recommendation of Senate for award of degrees and medals to the students in the Convocation on 13/7/2014**

The Board **CONSIDERED** the recommendation of the Senate for award of degrees and medals to students graduating in month of July, 2014.

**R 77/03/2014:** The Board **RESOLVED** that the recommendation of the Senate for award of various degrees and medals to the students as placed at **Annexure – 2** (not enclosed), who have successfully completed the prescribed courses of study and have qualified for the award of the BTech, B Des, M Tech, M Des, MSc, MA and PhD degrees from the Institute and the medals be **APPROVED** and they be conferred the degrees and the medals at the 16<sup>th</sup> Convocation of the Institute to be held on 13/7/2014.

**Item No. 4**

**Extension of Cadre Pay Band with Academic Grade Pay to officials of IITG Library starting from Assistant Librarian to Librarian.**

The Board **DISCUSSED** the proposal of extension of cadre pay band with academic grade pay to officials of IITG Library starting from Assistant Librarian to Librarian.

**R 77/04/2014:** The Board **APPROVED** the proposal of extension of cadre pay band with academic grade pay to officials of IITG Library starting from Assistant Librarian to Librarian as per MHRD's order vide No.1-32/2006-U.II/U.I (i), dated 31/12/2008 which is placed at **Annexure – 3** (not enclosed).

**Item No. 5**

**Recommendation of the Committee for Appointment of Dependents on Compassionate Ground**

The Board **CONSIDERED** the report of the Committee constituted for the purpose of appointment of dependent namely Ms.Hiran Deka w/o Late Kulen Ch Deka, Attendant of the Institute on compassionate ground .The Committee recommended this appointment since it is covered as per the existing Scheme for Compassionate Appointment of Dependents of Employees of IITG.

In the light of the above, Board **DELIBERATED** on the issue in details, and decided as below:

**R 77/05/2014:** The Board **ACCEPTED** the Committee's report as given as **Annexure-4**(not enclosed) on the compassionate appointment in respect of Ms.Hiran Deka as Junior Attendant like all other similar cases in the Institute on compassionate ground.

**Item No. 6**

**Appointment of a Professional "Student Counsellor"**

The Board **EXAMINED** the proposal for appointment of a professional "Student Counsellor" at the Institute for proper and scientific counselling of students.

**R 77/06/2014:** The Board **RESOLVED** that the proposal for appointment of the professional "Student Counsellor" having Post Graduate qualifications from accredited and recognized institutions with specializations in Counselling, Psychotherapy, Clinical Psychology (one or more of these areas) with sufficient experience, on contractual basis for a period of two years with a consolidated pay of ₹ 35,000/- per month and with the clause that higher salary be considered for those with higher qualification & experience be **APPROVED**.

**Item No. 7**

**Revisiting the earlier Board decision on the matter of medical reimbursement on post liver transplant surgery in respect of Dr. Nachiketa Tripathy, Assoc. Professor, Dept. of HSS, IITG**

The Board **DISCUSSED** in details the matter of medical reimbursement to Dr. Nachiketa Tripathy on liver transplant surgery and post operative treatment and **DECIDED** to revisit the earlier Board decision on the matter.

**R 77/07/2014**: The Board **RESOLVED** that medical reimbursement in respect of Dr. Nachiketa Tripathy on post operative treatment be considered only as per rates applicable in a Government Hospital/AIIMS.

**Item No. 8**

**Reimbursement of Medical Expenses in respect of Dr. Subrata Kr Majumdar, Associate Professor, Department of Chemical Engineering**

The Board discussed the matter of further reimbursement of medical expenses like medicines and test in respect of Dr.Subrata Kr Majumdar as a special case as he was already reimbursed more than the maximum ceiling of medical reimbursement prevailing in the Institute Medical Rule.

**R 77/08/2014**: The Board **APPROVED** the request of Dr.Subrata Kr. Majumdar who was suffering from chronic liver disease for reimbursement of further medical expenses like medicines and test.

The Board further **OPINED** that the matter may be reviewed in future based on Institute Medical Policy.

**Item No. 9**

**Appointment /creation of post of Associate Dean, Faculty Affairs**

**R 77/9/2014**: The Board **APPROVED** the proposal of appointment /creation of a new post of Associate Dean, Faculty Affairs in the Institute.The Board further **AUTHORISED** the Director to make appointment to this position.

**Item No. 10**

**Strict Compliance of availing LTC by National Carrier (Air India)**

The Board **DISCUSSED** the matter reported of receiving audit objections by the Institute on availing LTC using non-national Airlines without proper and sufficient justification towards the same and their instruction of strictly availing LTC by Air India only.

After **DELIBERATION** on the matter the Board **DECIDED** to stick to the earlier

resolution duly adopted in the 59<sup>th</sup> BOG meeting of the Institute held on 3/12/2009

which is as follows:

**R 59/05/2009**: The Board **RESOLVED** that the proposal for permitting employees to travel by private airlines on their official duty within India and while availing LTC, be **APPROVED**, subject to proper justifications for not travelling by the National Airline. Every attempt must be made to use the National Airline. The Institute may put in place appropriate mechanisms to ensure this. However, in respect of international air travel, GOI norms issued vide the OM referred to above will be applicable. Exceptional cases will be permitted by the Director.”

### **Item No. 11**

#### **Proposal of an Archive of the IITG**

The Board **EXAMINED** the proposal of an Archive of the IITG which are institutions for collecting and preserving the documentary heritage of a nation or institution for posterity

**R 77/11/2014**: The Board **APPROVED** the proposal of starting an Archive of IITG with the following main function:

- a) to collect in a single repository all the non-current records, both confidential and non-confidential .
- b) to house them in a properly equipped building.
- c) to arrange and classify them using scientific principles.
- d) to take adequate measures for their preservation .
- e) to make them available both to the official and non-official users .

The detailed proposal of the Archive is given as **Annexure –5** (not enclosed).

### **Item No 12**

#### **Proposal for Appointment of an Ombudsman and an Additional Associate Warden in each Hostel**

**R 77/12/2014**: The Board **APPROVED** the proposal of appointment of an Ombudsman and an Additional Associate Warden in each Hostel to resolve various internal or external matters of the hostels and to minimise the increasing voluminous work of the Hostel. The Board further **AUTHORISED** the Director to make appointments to these positions.



**Item No. 13**

**Replacement of the Director's Nominee to the Board of Governors of NITs following completion of term.**

**R 77/13/2014:** The Board **RESOLVED** to **APPROVE** the replacement of the Director's Nominee to the Board of Governors of NITs following completion/expiry of term of some of the existing Director's Nominees to the BOGs of NITs in the North - East with the following:

SI No.	Name of Dean		BOG of NITs
	Former	Present	
1.	Prof. B. K. Patel, Ex- Dean of Student Affairs	Prof. Chandan Mahanta, Dean of Students Affairs	NIT Nagaland
2.	Prof. S. K. Bose, Ex- Dean of Alumni Affairs and External Relations	Prof. Subhash C. Mishra, Dean of Alumni Affairs and External Relations	NIT Sikkim
3.	Prof. Alike Khare, Ex- Dean of Academic Affairs	Prof. Alope K. Ghoshal, Dean of Academic Affairs	NIT Manipur

**Item No. 14**

**To Ratify the Approvals Accorded by the Chairman, BOG**

**(F) Recruitment Rules in respect of some Non-Faculty Post.**

**R 77/14A/2014:** The Board **RATIFIED** the recruitment rules approved by the Chairman BOG, IITG dated 8/7/2013 framed for the post of Deputy Registrar, Senior Assistant Engineer, Library Information Officer, Senior Technical Superintendent, Superintendent, Security Officer, Senior Accountant and Hindi Officer as given as **Annexure-6** (not enclosed.)

**(B) Approval to the recommendations of Selection Committee for the post of Assistant Registrar in IIT Guwahati.**

**R 77/14B/2014:** The Board **NOTED** the approval of the Chairman, BOG on the recommendation of the Selection Committee for the post of Assistant Registrar in IIT Guwahati as below:

Sl. No.	Name	Recommended for	Scale of Pay	Initial Basic Pay
1.	Ms. Amaya Phukan	Assistant Registrar	Pay: PB3 ₹15600–39100 GP: ₹ 5400/-	Initial Pay as per rule

(C) **Approval to the recommendations of the Selection Committee for the post of Faculty positions in the Department of Civil Engineering, Department of Computer Science & Engineering , Department of Design and Department of Chemical Engineering .**

**R 77/14C/2014:** The Board **NOTED** the approval of the Chairman, BOG on the recommendations of the Selection Committees for the post of Faculty positions in the Departments of Civil Engineering, Department of Computer Science & Engineering, Department of Design and Department of Chemical Engineering as below:

**i) Dept. of Civil Engineering**

Sl. No.	Name	Recommended for	Initial Pay (Rs.)
1.	Dr. Saswati Chakraborty	Professor	As per rules
2.	Dr. Baleshwar Singh	Professor	As per rules
3.	Dr. Arbind Kumar Singh	Professor	As per rules
4.	Dr. Sreeja Pekkatt	Associate Professor	As per rules
5.	Dr Adapa Murali Krishna	Associate Professor	As per rules
6.	Dr.Bulu Pradhan	Associate Professor	As per rules
7.	Dr. Mallikarjuna Chunchu	Associate Professor	As per rules
8.	Dr. Suresh Arvindakshan Kartha	Associate Professor	As per rules
9.	Dr.Hemant B. Kaushik	Associate Professor	As per rules
10.	Dr. Akhilesh K.Maurya	Associate Professor	As per rules
11.	Dr.Arunasis Chakraborty	Associate Professor	As per rules
12.	Dr.Budhaditya Hazra	Assistant Professor	₹22,640/-AGP ₹7,000/-
13.	Dr.Arghadeep Laskar	Assistant Professor	₹30,000/-AGP ₹8,000/-
14.	Dr.Kota Sri Harsha	Assistant Professor	₹20,140 AGP ₹6,000/-
15.	Dr.Abhishek Kumar	Assistant Professor	₹20,930/-AGP ₹6,000/-
16.	Dr. Indu Siva Ranjan Gandhi	Assistant Professor	₹22,640/-AGP ₹7,000/-

**ii) Dept. of Computer Science and Engineering**

Sl. No.	Name	Recommended for	Initial Pay (Rs.)
1.	Dr. Sajith Gopalan	Professor	As per rules

2.	Dr. S.V.Rao	Professor	As per rules
3.	Dr. Purandar Bhaduri	Professor	As per rules
4.	Dr. Santosh Biswas	Associate Professor	As per rules
5.	Dr.Arпита Patra	Assistant Professor	₹30,000/- AGP ₹8,000/-
6.	Dr. Rashmi Dutta Baruah	Assistant Professor	₹20,140/-AGP ₹ 6,000/-

iii) **Dept. of Design**

Sl. No.	Name	Recommended for	Initial Pay (Rs.)
1.	Ms. Sheetal M.Gokhale	Assistant Professor	₹18,320/- AGP ₹6,000/-
2.	Ms. Nanki Nath	Assistant Professor	₹16,920/-AGP ₹6,000/-
3.	Mr. Jagadish Kumar V	Assistant Professor	₹18,320/-AGP ₹6,000/-
4.	Dr .Swati Pal	Assistant Professor	₹ 21,770/-AGP ₹7,000/-
5.	Mr. Pankaj Upadhyay	Assistant Professor	₹16,920/-AGP ₹6,000/-
6.	Mr. Abhishek Shrivastava	Assistant Professor	₹17610/-AGP ₹ 6,000/-
7.	Ms. Charu Monga	Assistant Professor	₹16,920/-AGP ₹ 6,000/-
8.	Mr. Abhishek Singh	Assistant Professor	Visiting Assistant Professor with consolidated pay of ₹52.400/-pm for one year. He may be given other benefits as applicable to the post.

iv) **Department of Chemical Engineering**

Sl. No.	Name	Recommended for	Initial Pay (Rs.)
1.	Dr. Bishnupada Mandal	Professor	As per rules
2.	Dr. Anugrah Singh	Professor	As per rules
3.	Dr. Dipankar Bandyopadhyay	Associate Professor	As per rules
4.	Dr. Animesh Kumar Golder	Associate Professor	As per rules
5.	Dr. Nanda Kishore	Associate Professor	As per rules
6.	Dr. Vimal Katiyar	Associate Professor	As per rules
7.	Dr. Mahuya De	Associate Professor	As per rules
8.	Dr. Chandan Das	Associate Professor	As per rules
9.	Dr. Vaibhav V Goud	Associate Professor	As per rules
10.	Dr. Tapas Kumar Mandal	Associate Professor	As per rules
11.	Dr. Raghvendra Gupta	Assistant Professor	₹30,000/- AGP ₹8,000/-
12.	Dr. Anki Reddy Katha	Assistant Professor	₹30,000/- AGP ₹8,000/-
13.	Dr.Partho Sarathi Gooh Pattader	Assistant Professor	₹20,930/-AGP ₹6,000/-
14.	Dr. R. Ananda Lakshmi	Assistant Professor	₹20,930/-AGP ₹6,000/-

15.	Dr. Nageswara Rao Peela	Assistant Professor	₹21,770/-AGP ₹7,000/-
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**(D) Approval to the recommendations of the Selection Committee for the Post of Technical Officer Gr-I (TO Gr-I)**

**R 77/14D/2014:** The Board **NOTED** the approval of the Chairman, BOG on the recommendation of the Selection Committee for the post of Technical Officer Gr-I (TO Gr-I) in IIT Guwahati as below:

Sl. No.	Name	Recommended for	Scale of Pay	Initial Basic Pay
1.	Dr. Babulal Das	Technical Officer Gr.I	Pay: PB3 ₹15600–39100 GP: ₹ 6600/-	Initial Pay as per rule
2.	Mr. Kaustubh Acharyya			
3.	Dr. Deepmoni Deka			
4.	Dr. Lepakshi Barbora			
5.	Dr. Kula Kamal Senapati			
6.	Ms. Josephine .S.			
7.	Mr. Sanjoy Das			
8.	Mr. Manab Mohan Borah			

**(E) Approval to the proposal for awarding D.Sc degrees. (Honoris Causa)**

**R 77/14E/2014:** The Board **RATIFIED** the proposal as approved by the Chairman BOG, IITG for award of D. Sc (Honoris Causa) to Dr. Jyotiprasad Medhi, Emeritus Professor, Gauhati University and Dr. Dipak C. Jain, Professor of Marketing at INSEAD, the International Business School with campuses in Fontainebleau (France), Singapore and Abu Dhabi respectively for their extraordinary contribution in their respective fields of Mathematics and Business. An official communication received from MHRD in this regard is placed as **Annexure –7** (not enclosed).

**(F) Approval to the proposal of Institute Post Doctoral Fellowship (IPDF)**

**R 77/14F/2014:** The Board **RATIFIED** the approval accorded by the Chairman BOG, IITG to the guidelines of Institute Post Doctoral Fellowship (IPDF) as given as **Annexure –8** (not enclosed).

**(G) Approval to the recommendations of Appraisal Committee for selecting eligible**

**faculty members for the HAG scale**

**R 77/14G/2014:** The Board **NOTED** the approval of the Chairman, BOG on the recommendation of the Appraisal Committee for selecting eligible faculty members for HAG scale as below:

Sl. No.	Name	Effective Date
1.	Dr. Alope Kr. Ghosal, Dept. of Chemical Engineering	With effect from December 01, 2013
2.	Dr. Debkumar Chakrabarti, Dept. of Design	With effect from February 01, 2014
3.	Dr. Archana Barua, Dept. of HSS	With effect from February 01, 2014
4.	Dr. Anjan Dutta, Dept. Of Civil Engineering	With effect from April 01, 2014
5.	Dr. Arup Kr. Sarma, Dept. Of Civil Engineering	With effect from April 01, 2014
6.	Dr. Santosh Kr. Dwivedy, Dept. of Mechanical Engineering	With effect from May 01, 2014
7.	Dr. Debabrata Chakraborty, Dept. of ME	With effect from May 01, 2014
8.	Dr. Pinakeswar Mahanta, Dept. of ME	With effect from May 01, 2014
9.	Dr. Rafikul Alam , Dept. Of Mathematics	After completion of defence of PhD students

**(H) Extension of PDA facility to visiting Faculty members**

**R 77/14H/2014:** The Board **RATIFIED** the approval accorded by the Chairman BOG IITG, to extend the PDA facility to the Visiting Faculty of the Institute who are appointed for a period of more than a year at pro-rata basis. This facility is subject to settlement of advances as per the Institute rules in case of pre-termination of the concerned Visiting Faculty.

**Item No 15**

**Items approved by the Director**

**R 77/15/2014:** The Board **NOTED** the following items (a to m) approved by the Director:

- a. **Attendance of Conference / Seminar etc. abroad**
- b. **Appointment of Chairman, Vice-Chairmen, Heads, Wardens, Associate Wardens, Faculty-in-Charge etc.** as mentioned below:

Sl. No.	Name	Position	Period of Appointment / Extension
1.	Prof. Alope Kr Ghosal, Department of Chemical	Dean of Academic Affairs	Appointed for a period of three years w.e.f 1/4/2014

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	Engineering		
2.	Prof. Subhash C. Mishra, Department of Mechanical Engineering	Dean of Alumni Affairs & External Relations	Appointed for a period of three years w.e.f 1/4/2014
3.	Prof. Chandan Mahanta, Department of Civil Engineering	Dean of Students Affairs	Appointed for a period of three years w.e.f 1/4/2014
4.	Prof. A. Srinivasan, Department of Physics	Dean Faculty Affairs Section	Term extended till 31/8/2014
5.	Dr. Anupam Saikia, Associate Professor, Deptt. Of Mathematics	Associate Dean, Academic Affairs	For a period of three years w.e.f.1/4/2014
6.	Prof. Bhisma Kumar Patel, Department of Chemistry	Head, Dept. of Chemistry	Appointed for a period of three years w.e.f 1/4/2014
7.	Prof. Pranab Goswami, Department of Biotechnology	Head, Centre for Energy	Appointed for a period of three years w.e.f 2/4/2014
8.	Dr. Arupiyoti Saikia, Department of Humanities and Social Science	Head, Department of Humanities and Social Science	Appointed for a period of three years w.e.f 1/4/2014
9.	Dr. Rakhi Chaturvedi, Department of Biotechnology	Chairman, GATE & JAM 2015	
10.	Dr. N. Selvaraju, Department of Mathematics	Vice-Chairman, GATE & JAM 2015	
11.	Dr. Aditya N Panda, Department of Chemistry	Vice-Chairman, GATE & JAM 2015	
12.	Prof. Swaroop Nandan Bora, Department of Mathematics	Chairman , Library Committee	Appointed for a period of two years w.e.f 2/6/2014
13.	Dr. Samit Bhattacharya, Dept. of CSE	Warden, Brahmaputra Hostel	Appointed for a period of two years w.e.f 1/4/2014
14.	Dr. Priyankoo Sarmah, Department of Humanities & Social Science	Associate Warden, Brahmaputra Hostel	Appointed for a period of two years w.e.f 1/4/2014
15.	Dr. A. Murali Krishna, Department of Civil Engineering	Warden, Manas Hostel	w.e.f 1/5/2014 to 31/3/2016
16.	Dr. D. Uday Kumar, Department of Design	Associate Warden, Manas Hostel	w.e.f 1/5/2014 to 31/3/2016
17.	Dr. Bhupen Deka, Department of Mathematics	Associate Warden, Barak Hostel	w.e.f 1/5/2014 to 31/3/2016
18.	Prof. Latha Rangan, Department of Biotechnology	Warden, Girls Hostel-II	w.e.f.19/6/2014 to 31/3/2016.
19.	Dr. Shakuntala Mahanta, Dept. of Humanities and Social Science	Warden, Subansiri Hostel	w.e.f.19/6/2014 to 31/3/2016.
20.	Dr. Rajshree Bedamatta, Dept of Humanities and Social Science	Assoc. Warden, Girls Hostel II	w.e.f.19/6/2014 to 31/3/2016.
21.	Dr. Sawmya Ray, Dept. of	Assoc. Warden,	w.e.f.19/6/2014 to

	Humanities and Social Science	Subansiri Hostel	31/3/2016.
22.	Prof. Natesan Srinivasan, Dept. of Mathematics	Faculty in Charge , Training and Placement	Term of appointment is extended for a period of two years w.e.f 18/6/2014
23.	Prof. S.K.Kakoty, Department of Mechanical Engineering	Dean of Infrastructure, Planning and Management (DIPM)	Three years w.e.f.23/7/2014
24.	Dr. A.M. Limaye, Department of Biotechnology	Warden, Dihing Hostel	Period extended w.e.f.16/8/2014 to31/3/2015
25.	Dr. C. Mallikarjuna , Department of Civil Engineering	Warden, Siang	Period extended w.e.f.16/8/2014 to 31/3/2015
26.	Dr. A. Rajesh, Department of EEE	Warden, Umiam	w.e.f.16/8/2014 to31/3/2016
27.	Dr. G. Pugazhenth, Department of Chemical Engineering	Warden, Barak	w.e.f.16/8/2014 to 31/3/2016
28.	Dr. Md.M.Qureshi, Department of Chemistry	Associate Warden, Siang	Period extended w.e.f.16/8/2014 to 31/3/2015
29.	Dr. P.A.S.Sree Krishna, Department of Mathematics	Associate Warden, Umiam	w.e.f.16/8/2014 till 31/3/2016
30.	Dr. Suresh Kartha, Department of CE	Associate Warden, Kameng	w.e.f.16/8/2014 to 31/3/2016
31.	Dr. Debasis Manna, Department of Chemistry	Associate Warden, Dihing	w.e.f.16/8/2014 to 31/3/2016

- m. **Appointment of Associate Professor-In-Charge Peer Review** as mentioned below:

Sl. No.	Name	Position	Period of Appointment
1.	Dr. Niranjan Sahoo Associate Professor, Department of Mechanical Engineering	Associate Professor-In-Charge Peer Review	w.e.f. 29/10/2013 till further order

- n. **Confirmation of Faculty Members** as mentioned below:

Sl. No.	Name	Post
1.	Dr. Arabin Kumar Dey	Assistant Professor, Mathematics
2.	Dr. Swati Bhattacharya	Assistant Professor, Physics
3.	Dr. Prasanna Venkatesh Rajaraman	Assistant Professor, Chemical Engineering
4.	Dr. Saswata Shannigrahi	Assistant Professor ,CSE

5.	Dr. Piruthivi Sukumar	Assistant Professor, Biotechnology
6.	Dr. Sachin Kumar	Assistant Professor, Biotechnology
7.	Dr. Kingsuk Mahata	Assistant Professor, Chemistry
8.	Dr. Sameer Kamal	Assistant Professor, Mathematics
9.	Dr. T.V. Bharat	Assistant Professor, Civil Engineering
10.	Dr. Annem Narayana Reddy	Assistant Professor ,Mechanical Engineering
11.	Dr. Tony Jacob	Assistant Professor, EEE

**o. Confirmation of Non-faculty Members as mentioned below:**

Sl. No.	Name	Post
1.	Mr. Hem Chandra Nath	Assistant Engineer(GP ₹ 4600/-)
2.	Mr. Amal Sarma	Assistant Engineer (GP ₹ 4600/-)
3.	Mr. Jayanta Sarkar	Assistant Engineer (GP ₹4600/-)
4.	Ms. Leoni Choudhury	Jr. Superintendent ( GP ₹ 4200/-)
5.	Mr.Bimal Das	
6.	Mr. Mukut Baruah	
7.	Mr. Sridhar Samal	Sr. Assistant ( GP ₹2800/-)
8.	Mr. Alok Mazumder	
9.	Mr. Raju Singha	
10.	Mr. Ganesh Kalita	
11.	Mr. Bitan Seal	
12.	Mr. Monjit Bora	
13.	Mr. Bishnuraj Sharma	
14.	Mr. Manas Kr. Sarma	
15.	Mr. Mohan Ch. Nath	Driver Gr. I ( GP ₹ 2800/-)
16.	Mr. Prafulla Kakati	
17.	Mr. Firoj Dewan	Sr. Technician ( GP ₹ 2800/-)
18.	Mr. Nripen Kalita	
19.	Mr. Hari Ram Upadhyay	
20.	Mr. Dipak Lahkar	Sr. Laboratory Assistant ( GP Rs 2800/-)

**p. Extension of period of contract appointment of Scientific Officers as mentioned below:**

Sl. No.	Name	Period of Extension		Ref. No. of Initial Appointment
1.	Mr. Sanjoy Das, Scientific Officer Gr.II, Computer and Communication Centre	25/3/2014	24/3/2016	R&P/92/2008/853dtd. 20/03/2008



2.	Mr.Jishu Krishna Ghosh Scientific Officer Gr.II Computer and Communication Centre	3/4/2014	2/04/2016	R&P/92/2008/854 dated 20/03/2008
3.	Mr. Manab Mohan Borah, Scientific Officer Gr .II, Computer and Communication Centre	1/4/2014	31/3/2016	R& P/92/2008/852 dated 20/03/2008
4.	Mr. Nanu Alan Kachari,Scientific Officer Gr. II, Dept. of Computer Science and Engineering	10/4/2014	9/4/2016	R&P/91/2008/851 dated 20/3/2008
5.	Mr. Bhriguraj Borah, Scientific Officer Gr.II, Dept. Of Computer Science and Engineering	30/4/2014	29/4/2016	R&P/91/2008/850dated. 20/3/2008
6.	Dr. Pranjoli Das, Scientific Officer Gr. II, Centre for Nanotechnology	1/7/2014	30/6/2016	R&P/65/04-09/1678 dated 9/6/2009

- q. Financial up gradation of non-faculty employees as per MACP Scheme as mentioned below:**

Sl. No.	Name and Designation	Effective Date	New Pay
1.	Dr. Brajendra Nath Raychoudhury, Registrar IITG	1/5/2014	67,000-79,000/- (HAG Scale)
2.	T. Tongkholun Haokip, Assistant Registrar	21/4/2014	PB3-₹15,600- 39,100/- GP=₹6,600/-

- r. Enhancement of Dearness Allowance/ Relief from 90% to 100% w.e.f. 1/1/2014.**
- s. Enhancement of some Allowances by 25% due to increase of Dearness Allowance to 100% w.e.f. 1/1/2014**[i.e. Children Education Allowance, Special Compensatory (Remote Locality) Allowance, Festival Advance, Uniform/Washing Allowance ,Travelling Allowance etc.].
- t. Term of offer of appointment to the post of Deputy Registrar in respect of Mr. Kuntal Bhuyan** has been changed from 3 years contract to 1 year probation against the availability of a sanctioned post arising out of a resultant vacancy w.e.f.4/4/2014 (A.N.).
- u. Counting of past service of Mr. Uttam Ch. Das, Deputy Registrar, Finance & Accounts** from 6/9/1994 to 10/3/1998 =3 years 8 months and 6 days.
- v. Replacement of daily wage payment to consolidated mode@₹12000/-per month w.e.f. 6/6/2014 of the following temporary Jr. Attendant** as mentioned below:

Sl. No	Name
1.	Ms. Jaya Thakuria
2.	Ms. Dipti Devi
3.	Mr. Rajib Boro

Relevant Recruitment Rules (RRs) in this regard needs to be modified accordingly.

- w. **Granting of Lien to Dr. Subhajt Choudhury, Assistant Registrar (Establishment)** of this Institute for a period of 13 months w.e.f. 24/7/2014 (FN) to 23/8/2015 (AN), as per the existing provision of the Institute, to enable him to join Assam University, Silchar, Diphu Campus.

**Item No.16**

**Minutes of the Seventy Fourth Meeting of the Building and Works Committee of the Institute held on 26/11/2013**

**R 77/16/2014:** The Board **RESOLVED** that the minutes of the Seventy Fourth Meeting of the Building and Works Committee of the Institute held on 26/11/2013 of the Institute be **NOTED**.

**Item No.17**

**Minutes of the Hundred Second, Hundred Third, Hundred Fourth ,Hundred Fifth and Hundred Sixth meeting of the Senate of the Institute held on 23/12/2013, 20/2/2014, 21/3/2014 , 13/5/2014 and 27/5/2014 respectively.**

**R 77/17/2014:** The Board **RESOLVED** that the Minutes of the Hundred Second, Hundred Third, Hundred Fourth ,Hundred Fifth and Hundred Sixth meeting of the Senate of the Institute held on 23/12/2013, 20/2/2014, 21/3/2014 , 13/5/2014 and 27/5/2014 respectively of the Institute be **NOTED** .

**Item No. 18**

**Items for Reporting to the Board**

**R 77/18/2014:** The Board **NOTED** the following matters (**A to H**) as reported:

- (A) **Extension of benefit of deduction u/s 80G (5) (vi) of the Income Tax Act, 1961 to donations made to IITG** vide order dated 3/6/2014 of the Ministry of Finance: Department of Revenue, Office of the Commissioner of Income tax, Guwahati as

placed as **Annexure-9**(not enclosed).

**(B) Appointment of Dr. Rakesh Kumar Gupta as Visiting Professor in the Department of Humanities and Social Sciences**

Dr. Rakesh Kumar Gupta, Retired Professor, Centre for Political Studies, Jawaharlal Nehru University is appointed as a visiting Professor in the Department of Humanities and Social Science for a period of 3 months from 1/9/2014 to 30/11/2014 under the following terms and conditions:

1. Consolidated salary of ₹ 75,000/- per month for the period of appointment.
2. Furnished faculty quarter at the campus for the said period.
3. Round-trip airfare for self.
4. Medical and other benefits as currently applicable to the post.

**(C) Appointment of Dr. Vishv Mohan Malhotra as Visiting Professor in the Department of Computer Science & Engineering .**

Dr. Vishv Mohan Malhotra, Retired Professor, School of Computing and Information Systems, University of Tasmania is appointed for a period of one year starting from August 2014 as a Visiting Professor in the Department of Computer Science and Engineering under the following terms and conditions:

1. Consolidated salary of ₹ 1,28,000/- per month for one year (standard deduction are applicable).
2. Furnished faculty quarter at the campus for the said period.
3. Return economy air fare from the nearest airport from his place of residence in Tasmania to Guwahati.
4. Medical and other benefits as currently applicable to the post.

**(D) Relaxation of Educational Qualification and Experiences for recruitment of Assistant Professor and Promotion to Associate Professor / Professor posts in the Department of Design.**

76<sup>th</sup> BOG meeting of the Institute held on 25/2/2014 approved a set of relaxation norms applicable for new recruits as well as existing faculty members in the Department of Design which was forwarded to MHRD for concurrence.

In response, MHRD has cited an earlier Ministry's letters (No. 13-2/2005-TS-I dated 23/9/2005) as placed as **Annexure -10** (not enclosed)and as such the

above relaxation norms which have already been approved in the 76<sup>th</sup> BOG meeting of IITG would be implemented with immediate effect.

- (E) **Change of Nomenclature of Dean of Institute Works (DIW) and Associate Dean of Institute Works (ADIW) as Dean of Infrastructure, Planning and Management (DIPM) and Associate Dean of Infrastructure, Planning and Management (ADIPM).**

The existing nomenclature of the Dean of Institute Works (DIW) and Associate Dean of Institute Works (ADIW) has been changed to Dean of Infrastructure, Planning and Management (DIPM) and Associate Dean of Infrastructure, Planning and Management (ADIPM) respectively.

DIPM and ADIPM will be responsible for creation of new civil infrastructure, and maintenance of existing civil infrastructure of the IITG Campus.

- (F) **Adoption of Annual Accounts of IITG by circulation**

The Board **NOTED** adoption of the Annual Accounts of IIT Guwahati for the financial year 2013-14 by circulation, for onward transmission to the Director General of Audit Central, Audit and Accounts Department ,Kolkata for statutory audit.

- (G) **Regularisation of service after completion of more than three years of temporary service**

Mr. Pankaj Das, a temporary employee of IIT Guwahati, engaged in this Institute w.e.f. 6/8/2009 in a consolidated pay has been regularised against a vacant post of Jr. Attendant with effect from 10/7/2014(FN).

- (H) **Recruitment rules in respect of Registrar IITG**

Recruitment rules as approved by the Director in respect of Registrar IITG is placed as **Annexure -11**(not enclosed) and forwarded to the office of the IIT council as per their request as placed in **Annexure -12**(not enclosed).

### **Item No. 19**

#### **Administrative Approval for Some Construction Works**

**R 77/19/2014:** The Board **RESOLVED** to sanction Administrative Approval for the following works:

- I. Expansion of Academic Complex (Phase –V) with an estimate of ₹ 5.60 lakhs.
- II. Construction of F-Type Towers with an estimate of ₹11690.00 lakhs.
- III. Construction and Repairing of Internal Roads of the IITG campus through Assam Public Works Department with an estimate of ₹ 830.00 lakhs.
- IV. Construction of Centre for Nanotechnology and Clean Room with an estimate of ₹ 2217.00 lakhs.
- V. For outsourcing of operation and maintenance services of Electrical system for Group-A, B and C at IITG with an estimate of ₹ 192.02 lakhs.
- VI. For outsourcing of operation & maintenance services of Water supply & distribution systems, sanitary system and other ancillary works of Group A, B and C at IITG with an estimate of ₹ 207.05 lakhs.
- VII. For construction of Boy's Hostel 11 with an estimate of ₹11897.00 lakhs.
- VIII. For outsourcing of horticultural maintenance and development services for Group-A, B, C and D at IITG with an estimate of ₹1,62,28,021.00.

**Item No. 20**

**Promotional Scheme (Revised) for the Non-teaching staff (Group-B, C & erstwhile D category posts) of the Institute with appropriate pay band, grade pay and designation**

The Board **DELIBERATED** on the proposed promotional scheme (revised) for the Non-Teaching staff (Group-B, C & Erstwhile D category posts) of the Institute.

**R 77/20/2014**: The Board **APPROVED** the proposed promotional scheme (revised) as given as **Annexure –13** (not enclosed) for the Non-teaching Staff (Group-B, C & Erstwhile D category posts) of the Institute with some modifications of the existing Recruitment Rules(RRs) as applicable .

**Item No. 21**

**Proposal for career up-gradation for sports officials in IITG**

The Board **EXAMINED** the proposal for career up-gradation of sports officials in IITG.

**R 77/21/2014**: The Board **DELIBERATED** on the grade pay of different sports officials of IITs including IITG and observed that since none of the existing Physical

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Training Instructors (PTIs) of IITG were drawing the pre-revised (5CPC) scale of pay of ₹ 8000-13500, so none of them were eligible in the line of Career Advancement Scheme for Physical Education Personnel for the posts of Asst. Director Physical Education (ADPE) / Deputy Director Physical Education (DDPE)/ Director Physical Education (DPE) within the purview of 6CPC, thus a new ladder is proposed for career up-gradation of existing sports officials of IITG in conformity with the Office Order issued earlier vide Ref. : AD/32/98/Vol.15/129, Dated 16/01/2012.

The Board **APPROVED** the following ladder for future implementation at IITG:

**For Coach:**

Grade Pay	Post /Designation	Remarks
2000 (PB-1)	Asst. Coach	5CPC corresponding scale : 3200-4900
2400 (PB-1)	May be skipped as corresponding 5CPC scale at this level does not exist	
2800 (PB-1)	Asst. Coach-Gr.I	5CPC corresponding scale : 4500-7000
4200 (PB-2)	Coach	5CPC corresponding scale : 5500-9000
4600 (PB-2)	Coach Gr.I	5CPC corresponding scale : 6500-10500
4800 (PB-2)	Sr.Coach	5CPC corresponding scale : 7500-12000
5400 (PB-2)	Sr.Coach Gr. I	5CPC corresponding scale : 8000-13500

**For PTI:**

Grade Pay	Post /Designation	Remarks
4200 (PB-2)	Physical Training Instructor (PTI)	5CPC corresponding scale : 5500-9000
4600 (PB-2)	Physical Training Instructor (PTI) Gr. I	5CPC corresponding scale : 6500-10500
4800 (PB-2)	Senior Physical Training Instructor (Sr. PTI)	5CPC corresponding scale : 7500-12000
5400 (PB-2)	Physical Training Officer (PTO) /	5CPC corresponding scale : 8000-13500
5400 (PB-3)	Assistant Physical Education Officer (APEO)	5CPC corresponding scale : 8000-13500
6600 (PB-3)	Physical Education Officer (PEO)	5CPC corresponding scale : 10325-10975,10000-15200,10650-15850
7600 (PB-3)	Sr. Physical Education Officer (SPEO)	5CPC corresponding scale : 12000-18000

**Item No. 22**

**Creation of non-faculty posts**

The Board **EXAMINED** the proposal for creation of non-faculty posts in the Institute as per norms agreed to by the Ministry of HRD.

**R 77/22/2014**: The Board **RESOLVED** that the proposal, as placed at **Annexure – 14**(not enclosed), for creation of 81 nos. of posts (Non-faculty) in the Institute, keeping the ratio of sanctioned faculty to non-teaching staff at 1:1.1 be **APPROVED**. However, the Institute Authority will take final decision regarding filling up of these posts.

**(B. N. Raychoudhury)**  
**Registrar & Secretary**  
**Board of Governors, IIT Guwahati**

RE: Approval of recruitment rules

[https://webmail.iitg.ernet.in/src/printer\\_friendly\\_bottom.php?pa...](https://webmail.iitg.ernet.in/src/printer_friendly_bottom.php?pa...)

From: "rpsingh rpsingh" <rpsingh@vvrconsultants.co.in>  
Subject: RE: Approval of recruitment rules  
Date: Fri, August 1, 2014 11:23 am  
To: "hosdir@iitg.ernet.in" <hosdir@iitg.ernet.in>

Approved

Thanks & Regards, Dr. R.P. Singh  
Office : 0124-4723974  
Mobile: 9818804511

> Date: Thu, 31 Jul 2014 17:52:57 +0530  
> Subject: Approval of recruitment rules  
> From: [hosdir@iitg.ernet.in](mailto:hosdir@iitg.ernet.in)  
> To: [rpsingh@vvrconsultants.co.in](mailto:rpsingh@vvrconsultants.co.in)

> Sir,

> As directed, kindly find the attached letter regarding approval of  
> recruitment rules for some Group A, B and C posts of IIT Guwahati.

> May kindly be approved.

> With kind regards,

> Yours faithfully,

> Amaya Phukan  
> Assistant Registrar  
> Director's Office  
> IIT Guwahati

**Attachments:**

untitled-[2]
Size: 1.1 k
Type: text/html

*Registrar*

*Kindly do the needful*

*Gautam Biswas*  
*1/8/14*





**भारतीय प्रौद्योगिकी संस्थान गुवाहाटी**  
**Indian Institute of Technology Guwahati**

Prof. Gautam Biswas  
FNA, FASC, FNAE, FNASC, F-ASME, FIE  
**Director and J. C. Bose National Fellow**

गुवाहाटी-781 039, भारत  
Guwahati-781 039, India

To  
Dr. R. P. Singh  
29, Pachimi Marg  
First Floor, Vasant Vihar  
New Delhi-110 057  
& Chairman, Board of Governors, IIT Guwahati

Ref : DIR/IITG/53/Chairman-BOG/2014/2251

Date : 31/7/2014

Dear Sir,

Please find enclosed the recruitment rules for the following posts of the Institute. It is prepared on the basis of the Sixth Pay Commission awards, and on the basis of existing rules prevailing in the IITs and are consistent with the rules already approved by the Board.

1. Midwife Gr.II
2. Midwife Gr. I
3. Assistant Coach Gr.I
4. Sr. Attendant
5. Sr. Driver
6. Physical Training Officer (PTO)
7. Sr. Physical Training Instructor
8. Assistant Physical Education Officer

Since new posts have been created by the Board and MHRD's concurrence is not required, these posts can now be filled up on promotion / direct recruitment basis. So the matter is placed before you for your approval of these rules. They will be placed before the next Board meeting for ratification.

With warm regards,

Yours sincerely,

*Gautam Biswas*

(Gautam Biswas)

Phone: +91-361-2690401  
+91-361-2582005

Fax: +91-361-2692321  
+91-361-2690762

Email: director@iitg.ernet.in  
gtm@iitg.ernet.in  
gtm@iitk.ac.in

**Name of the Post : Midwife Gr.II**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB 2 ₹ 5200 – 20200, Grade Pay : ₹ 2800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
7.	PERIOD OF PROBATION, IF ANY	One Year
8.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Promotion (100%)
9.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Midwife with a minimum of 5 years' experience.
10.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director/ Dean Administration 2. Registrar 3. Chief Medical Officer
11.	RESERVATIONS	As per Rules
12.	REMARKS	None

**Name of the Post : Midwife Gr.I**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB 2 ₹ 9300 – 34800, Grade Pay : ₹ 4200
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
7.	PERIOD OF PROBATION, IF ANY	One Year
8.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Promotion (100%)
9.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Midwife Gr. II with a minimum of 5 years' experience or Experience of 10 years as Midwife Gr. II and Midwife taken together.
10.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director/ Dean Administration 2. Registrar 3. Chief Medical Officer
11.	RESERVATIONS	As per Rules
12.	REMARKS	None

**Name of the Post : Assistant Coach Gr.I**

No	Heading	Information
1.	CLASSIFICATION	Group C
2.	SCALE OF PAY	PB1 ₹ 5200 – 20200, Grade Pay : ₹ 2800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
7.	PERIOD OF PROBATION, IF ANY	One Year
8.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Promotion (100%)
9.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Assistant Coach, with a minimum of 5 years' experience.
10.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director 2. Registrar 3. Chairman, Sports Board
11.	RESERVATIONS	As per Rules
12.	REMARKS	None

**Name of the Post : Physical Training Officer (PTO)**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹ 5400
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not applicable
6.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
7.	PERIOD OF PROBATION, IF ANY	One Year
8.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Promotion (100%)
9.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Sr. PTI with a minimum of 5 years' experience or Experience of 10 years as Sr. PTI and PTI Gr.I taken together or, Experience of 16 years as Sr. PTI, PTI Gr.I, PTI taken together.
10.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director/ Dean,SA 2. Registrar 3. Chairman, Sports Board
11.	RESERVATIONS	As per Rules
12.	REMARKS	None

**Name of the Post : Sr. Driver**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB1 ₹ 9300 – 34800, Grade Pay : ₹4200
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not applicable
6.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEES	Not Applicable
7.	PERIOD OF PROBATION, IF ANY	One Year
8.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
9.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Driver Gr. I with a minimum of 5 years' experience or Experience of 10 years as Driver Gr. I and Driver Gr. II taken together.
10.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Deputy Director 2. Registrar 3. Deputy Registrar or Asst. Registrar (Estb.)
11.	RESERVATIONS	As per Rules
12.	REMARKS	NONE

**Name of the Post : Sr. Physical Training Instructor**

No	Heading	Information
13.	CLASSIFICATION	Group B
14.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹ 4800
15.	WHETHER SELECTION OR NON-SELECTION POST	Selection
16.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
17.	AGE LIMIT FOR DIRECT RECRUITS	Not applicable
18.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
19.	PERIOD OF PROBATION, IF ANY	One Year
20.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Promotion (100%)
21.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	PTI Gr. I with a minimum of 5 years' experience or Experience of 10 years as PTI Gr. I and PTI taken together.
22.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director 2. Registrar 3. Chairman, Sports Board
23.	RESERVATIONS	As per Rules
24.	REMARKS	None

**Name of the Post: Sr. Attendant**

No	Heading	Information
1.	CLASSIFICATION	Group C
2.	SCALE OF PAY	PB2 ₹5200 – 20200, Grade Pay : ₹2400
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Attendant, with a minimum of 5 years' experience or, Experience of 10 years as Attendant and Jr. Attendant taken together
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Deputy Director / Dean Administration 2. Registrar 3. Deputy Registrar (Admin)
12.	RESERVATIONS	As per Rules
13.	REMARKS	None



**Name of the Post : Assistant Physical Education Officer**

No	Heading	Information
1.	CLASSIFICATION	Group A
2.	SCALE OF PAY	PB3 ₹15600 – 39100, Grade Pay : ₹ 5400
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 35 years Relaxation of age in respect of SC/ST/OBC will be as per GOI rule For Internal candidates' minimum requirements pertaining to age may not be insisted upon.
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Master's degree with 50% marks in Physical Education (two years course) or Master's degree with 50% marks in Sports or an equivalent degree. A relaxation of 5% may be provided from 50% to 45% of marks at the Master's level for SC/ST category. Record of having represented the University/College at the inter-University/inter-collegiate competitions or the State in national championship.
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Not applicable
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	Not applicable
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

**Recruitment Rules of some post amended/modified vide R77/20/2014 of 77<sup>th</sup> BOG held on 12/7/2014**

**Name of the Post : Junior Attendant**

No	Heading	Information
1.	CLASSIFICATION	Group C
2.	SCALE OF PAY	PB1 ₹5200 – 20200, Grade Pay : ₹1800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 30 years
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	10 <sup>th</sup> Standard Pass or ITI or equivalent
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment, through engagement on consolidated pay* or as daily wage earners if registered in employment exchange, and on satisfactory performance, absorption in to regular service. Priority to kin of land losers, if any.
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Not Applicable
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	Not Applicable
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

\* Added vide Resolution No.R77/20 /2014 in the 77<sup>th</sup> Meeting of the BOG held on 12.07.14

**Name of the Post: Superintendent**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹ 4600
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Junior Superintendent with a minimum of 5 years' experience or, Experience of 10 years as Jr. Superintendent and Sr. Assistant taken together or , Experience of 16 years as Jr. Superintendent, Sr. Assistant and Jr. Assistant taken together. *
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director / Dean Administration 2. Registrar 3. Dy. Registrar / Asst. Registrar (Admn.)
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

\* Amended vide Resolution No.R77/20/2014 in the 77th Meeting of the BOG held on 12.07.14

**Name of the Post: Junior Accounts Officer**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹ 9300 – 34800, Grade Pay : ₹ 4200
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Senior Assistant (with Commerce Background) with a minimum of 5 years' experience or Junior Accountant with a minimum of 5 years' experience or Jr. Assistant (with Commerce Background) with a minimum of 10 years' experience * β
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director/Dean Administration 2. Registrar 3. Deputy Registrar (F&A)
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

\* Persons without commerce background but having the already prescribed requisite experience in the F&A / Audit related works may also be considered subject to approval of the Director.

β Amended vide Resolution No.R77/20/2014 in the 77th Meeting of the BOG held on 12.07.14

**Name of the Post: Accounts Officer**

No	Heading	Information
14.	CLASSIFICATION	Group B
15.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹ 4600
16.	WHETHER SELECTION OR NON-SELECTION POST	Selection
17.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
18.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
19.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
20.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
21.	PERIOD OF PROBATION, IF ANY	One Year
22.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
23.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Jr. Accounts Officer / Jr. Superintendent (with Commerce Background) with a minimum of 5 years' experience or, Experience of 10 years as Jr. Accounts Officer and Sr. Accountant taken together or , Experience of 16 years as Jr. Accounts Officer, Sr. Accountant and Jr. Accountant taken together. * β
24.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 4. Deputy Director / Dean Administration 5. Registrar 6. Deputy Registrar (F&A)
25.	RESERVATIONS	As per Rules
26.	REMARKS	None

\* Persons without commerce background but having the already prescribed requisite experience in the F&A / Audit related works may also be considered subject to approval of the Director.

β Amended vide Resolution No.R77/20/2014 in the 77th Meeting of the BOG held on 12.07.14

**Name of the Post: Senior Technical Superintendent**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹4800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ABSORPTION TO BE MADE	Technical Superintendent with a minimum of 5 years' experience Or, Experience of 10 years as Technical Superintendent and Jr. Technical Superintendent taken together.*
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director / Dean Administration 2. Registrar 3. Head of Academic Dept./Centre
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

\* Added vide Resolution No.R77/20/2014 in the 77<sup>th</sup> Meeting of the BOG held on 12.07.14

**Name of the Post: Library Information Officer**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹ 9300 – 34800, Grade Pay : ₹ 4800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Assistant Library Information Officer with a minimum of 5 years' experience Or, Experience of 10 years as Assistant Library Information Officer and Senior Library Information Assistant taken together . *
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director / Dean Administration 2. Registrar 3. Librarian / Deputy Librarian
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

\* Added vide Resolution No.R77/15/2014 in the 77<sup>th</sup> Meeting of the BOG held on 12.07.04

**Name of the Post: Senior Assistant Engineer**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹9300 – 34800, Grade Pay : ₹ 4800
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Assistant Engineer with a minimum of 5 years' experience Or, Experience of 10 years as Assistant Engineer and Junior Engineer taken together *
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dean IPM / I/c, Engineering Section 2. Registrar 3. Superintending Engineer (Civil / Electrical)
12.	RESERVATIONS	As per Rules
13.	REMARKS	None



**R&D Projects under different Departments/Centres during last five financial year**

Project under taken by Department of Biotechnology during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned (in ₹)
1	Prebiotics and nutraceuticals production from Lactic acid bacteria	Dr. A. Goyal	1608600
2	Conjugating Luminescent Quantum Dots to Proteins: Consequences on Protein Function and Development of Sensitive Assays	Dr. R. Swaminathan	1250000
3	Cloning of fatty acid saturation genes and analysis of spatial and temporal expression from seeds of candidates plus tree, Karanj (Pongamia pinnata L)	Dr. L. Rangan	2178000
4	Studies on effect of small molecule compounds on folding and amyloid formation of proteins	Dr. V. K. Dubey	942400
5	Molecular modeling design and synthesis of macrophage phagosome - lysosome fusion activators in development of anti-malarials	Dr. V. Trivedi	1686000
6	M. Tech Biotechnology	HoD	17000000
7	Characterization of the rat ventral prostate specific PBPC1BS and S100RVP gene promoters	Dr. A. Mukund Limaye	500000
8	Characterization of the rat ventral prostate specific PBPC1BS and S100RVP gene promoters	Dr. B. G. Jaganathan	500000
9	Functional analysis of translesion DNA polymerase Pol eta ( $\eta$ ), Pol iota ( $i$ ), and Pol kappa ( $\kappa$ ) in Neurospora crassa	Dr. R. Tamuli	500000
10	Determination of Biochemical & Genetic factors underlying antimalarial action of clotrimazole	Dr. Vishal Trivedi	500000
11	DBT-Research Associateship in Biotechnology & Life Sciences (Candidate: Dr. Sudipta Shekhar Bhowmik)	Dr. S. S. Bhowmik	484000
12	Protein aggregation : Early Molecular events: mechanisms and inhibition	Dr. R. Swaminathan	5338603
13	Development and application of recombinant and other Celluloses for large scale recycling of Cellulosic biomass	Dr. A. Goyal	3710000
14	Evaluation of probiotic attributes of lactic acid bacteria based on bacteriocinogenic activity and in vitro adhesion properties	Dr. A. Ramesh	1080400
15	Studies on Peptide- conjugated nanoparticles mediated antileishmanial drug delivery to macrophages	Dr. V. K. Dubey	3193000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

16	Wingled Helix domain-oligonucleotide recognition as an axis to develop PIRIO- 2 specific inhibitor: implication in antimalaria drug development	Dr. V. Trivedi	4525000
17	An integrated computational & Biochemical approach to target ornithione decarboxylase, a key enzyme involved in synthesis of trypanothione for antileishmantal drug discovery	Dr. V. Trivedi	4015000
18	Study of Apopoitic pathways in Mesenchymal stem cells during Normal and Differentiated State	Dr. Bithi Grace Jaganathan	6345000
19	Role of Rho GTPase RhoaA on Interaction Between human mesenchymal stem cells & hematopoietic stem cells	Dr. Bithi Grace Jaganathan	3926000
20	Isolation Characterization and identification of natural pigment of food and industrial value from filamentous fung	Dr. Gurvinder Kaur Saini	1301000
21	Molecular & Physic- chemical characterization of selected ginger species from north eastern region	Dr. L. Rangan	2510000
22	Development of pod borer resistant transgenic pigeonpea and chickpea	Dr. L. Sahoo	4399820
23	Betraying the parasite's redox system: Studies on sepermidine synthase of Leishmania donovani	Dr. V. K. Dubey	8218000
24	An integrated computational and biochemical approach to target Ornithione for antileishmanial drug discovery	Dr. V. K. Dubey	1452042
25	Purification of Caffeine form waste tea leaves and their transformation to potent pharmaceutical molecules	Dr. S. Patra	4660000
26	Silk Based Scaffolds for Neural Tissue Engineering	Dr. U. Bora	5844000
27	Single Molecule fluorescence investigation on the mechanism of lysozyme aggregation and RNA helicase activity	Dr. R. Swaminathan	6050000
28	The SHBG-RSHBG Pathway: Insights from prostate Cancer cell lines	Dr. A. Mukund Limaye	1989000
29	DBT-Research Associateship in Biotechnology & Life Sciences (Candidate: Ms. Gunjan Saxena)	Mrs. Gunjan Saxena	484000
30	Deciphering the molecular mechanism underlying the activity of antitumor agents as antileishmanial agents and their potential for therapy	Dr. V. K. Dubey	4068000
31	Functional analysis of Calcium signaling proteins in neurospora crassa	Dr. Ranjan Tamuli	1635200
32	Biochemical and functional characterization of RIO kinase (s) from plasmodium falciparum as potential drug target	Dr. V. Trivedi	3940000
33	Creation of Bioinformatics Infrastructure Facility (BIF) for the promotion of Biology Teaching through Bio-Informatics (BTBI) scheme of BTISnet	HOD	2000000

34	Understanding the molecular Divergence of Lysozyme and $\alpha$ - lactalbumin by Resurrecting the Common Ancestor	Dr. B. Anand	500000
35	Screening of robust algae strains for biodiesel production	Dr. D. Das	500000
36	Bioengineered silk vascular grafts for blood vessel engineering	Dr. B. B. Mandal	1700000
37	Modulation of estrogen regulated gene expression by the green tea polyphenol EGCG in ER positive breast cancer cells: A microarray study	Dr. A. Mukund Limaye	795000
38	Molecular and functional characterization of dextran production in weissella spp.- superior dextran producers for cereal applications	Dr. A. Goyal	7706000
39	Development of silk protein derived artificial nerve growth conduits for neural tissue engineering	Dr. U. Bora	4530000
40	Understanding the role of Cation- TT interaction in the self assembly of amyloidogenic and de novo designed particles	Dr. N. Chaudhary	3103000
41	Structural basis for the maturation of Prokaryotic siRNA	Dr. B. Anand	3848000
42	Dynamical Aspects era GTPase 16SrRND Interactions and its implication in Ribosome Assembly	Dr. B. Anand	1685000
43	Variation in proteome profile of legume of legume plants in response to heavy metal toxicity	Dr. V. K. Dubey	2328000
44	Computation Engineering of protein folding pathways: Implication on stability, mis- folding & aggregation	Dr. Vibin Ramakrishnan	2700000
45	Regulating of Macrophage CD36 mediated immune response during malaria	Dr. V. Trivedi	2441000
46	Cytoskeletal organization and migration potential of mesenchymal stem cells (MSC) during different stages of differentiation	Dr. Bithiah Grace Jaganathan	2421000
47	Process optimization for Microbial synthesis of Hyaluronic Acid (HA) from new isolates: Development of structure kinetic model and experimental validations	Dr. Debasish Das	400000
48	Novel microalgal isolates as cell factory for Biodiesel production: Identification of multiple targets and designing of optimal process via system biology and biology and biochemical engineering approach	Dr. Debasish Das	2932060
49	Yield enhancement strategies for production of therapeutic compound by cell and tissue cultures of Tinspora Cordifolia Miers ex Hook. F. & Thoms	Dr. R. Chaturvedi	4804000
50	Studies on the Cellular role of Calcium signaling proteins in Nurespora Crassa	Dr. Ranjan Tamuli	7288000
51	Development of Aptamer Based Molecular Diagnostics for Breast Cancer	Dr. U. Bora	15485000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

52	Studies on typanothione synthetase, a key enzyme of redox metabolism of Leishmania donovani	Dr. V. K. Dubey	2672525
53	Mechanically strong silk composite matrices for bone tissue engineering	Dr. B. B. Mandal	598500
54	Computation design and experimental verification of self assembled peptides with unnatural amino-acids as building blocks	Dr. Vibin Ramakrishnan	500000
55	Fatty acylation mediated membrane targeting of proteins and peptides	Dr. . Nitin Chaudhary	500000
56	Silk based biomimetic scaffolds for tissue engineering applications.	Dr. Biman B Mandal	500000
57	Isolation of stem cell from Human Limbel and extra cellular Muscular tissue and differentiation into Retinal progenitor cells	Dr. Bithiah Grace Jaganathan	349500
58	Development of virtual Sensors for Real-Time Bioprocess Monitoring and Control	Dr. S. Sivaprakasam	500000
59	Cloning expression, biochemical and structural studies of family 5 Glycoside Hydrolase (GH5) cellulose and its derivatives from Clostridium thermocellum	Dr. A. Goyal	1450000
60	Inspire Faculty Award for Newcastle Disease Virus	Dr. Sachin Kumar	3500000
61	Molecular Mechanism of Target Recognition and Cleavage by the CRISPR-Cas Bacterial Immune System	Dr. B. Anand	6570000
62	Design & development of shape memory alloy actuated flexbile endoscope for diagnosis and surgery	Dr. Atanu Banerjee	5400000
63	Design, Synthesis and Characterization of Self-assembled Molecular Materials from Hetero-tactic Polypeptide Constructs; Applications in Drug Deleivery and Nano-Scale energy storage devices	Dr. Vibin Ramakrishnan	6000000
64	Stimulation of stem cell differentiation on silk fiber reinforced composite with tunable strength and degradation towards enhanced osteogenesis	Dr. B. B. Mandal	2300000
65	X-ray crystallographic structure elucidation of key drug target enzymes of Leishmania donovant	Dr. V K Dubey	7269000
66	Role of N-glycans of Newcastle disease virus fusion protein in the host immune signaling molecules	Dr. Sachin Kumar	1680000
67	Chracterization of immunogenic outer membrane proteins of leptospira interrogans for vaccine and diagnostics	Dr. Manish Kumar	645500
68	Improved Infectious Bursal Disease Virus Vaccines Using Newcastle Virus Vector	Dr. Sachin Kumar	4734000
69	Structure, Function,Dynamics and Inhibition of Matrix Metalloproteinases(MMPs)	Dr. S. Patra	2970000
70	Structural and Functional Studies of Translation Intiation Factors from Pyrococcus Horikoshii QT3	Dr. S. P. Kaunaujia	5290000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

71	Design and application of a Robust Process Analytical Technology (PAT) Platform for Real-time Monitoring and Control of Hyaluronic Acid Production	Dr. S. Sivaprakasam	7144800
72	Identification and Characterization of Bio-Active molecules from some indigenous medicinal plants of NE region of India with special reference to antioxidant and hypolipidemic properties	Dr. U. Bora	2297000
73	Integrative investigation on critical transcriptional modules involved in proliferation of malignant cells	Dr. B. Bose	6420000
74	Effect of Cleavage Site Mutations of Newcastle Disease Virus Fusion Protein in the Immune Signaling Molecules	Dr. Sachin Kumar	500000
75	Effect of Diabetes and Hyperlipidemia on TRPC channels of vascular cells	Dr. Piruthivi Sukumar	500000
76	Purification and Characterization of Putative Outer Membrane Protein of Leptospira Interrogans	Dr. Manish Kumar	500000
77	Structural Determinants and Protein Engineering of Metal Binding of Phospholipase A2	Dr. S. P. Kanaujia	500000
78	Therapeutic Efficacy of Boswellic Acid Against Oral Cancer	Dr. A. B. Kunnumakkara	500000
79	Strategy development for the mitigation of heavy metal in surface waters around Coal mining areas using native Cyanobacterial strains	Dr. K. Pakshiranjan	1465000
80	Study of Bone Marrow Microenvironment in Patients with Acute Leukemia from North East India	Dr. Bithiah Grace Jaganathan	998800
81	Development of transgenic cowpea for virus resistance using the tool of RNA interference (RNA)	Dr L Sahoo	3800000
82	Understanding the mechanism of substrate delivery through solute- binding proteins related to ABC transporters	Dr. S. P. Kaunaujia	4719600
83	Innovation in Science Pursuit for Inspired Research	Dr. B. B. Mandal	3500000
84	Stem cell based Bioengineering of annulus fibrosus in an intervertebral disc model using North East silk biomaterials	Dr. B. B. Mandal	5450000
85	Silk2Heal-Combining Indian Silk and functionalized recombinant spider silk Spiber	Dr. B. B. Mandal	7470000
86	Unraveling the rationale behind solvent stability of proteins	Dr. S. Patra	2820000
87	Modulation of gene expression in Leptospira interrogans exposed to human catecholamine hormone	Dr. Manish Kumar	2350000
88	In vitro production of doubled-haploids in tea	Dr. R. Chaturvedi	6458000
89	Production of recombinant human interferon gamma (IFN $\gamma$ ) from kluyveromyces lactics	Dr. V. V. Dasu	288325
90	A novel process for thermostable gene prospecting gene prospecting from thermophilic metagenome	Dr. S. Patra	2992000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

91	structural and functional Charecterization od adoptation stage of CRISPR-Cas System in Mycobacterium tuberculosis	Dr. B. Anand	5918200
92	Bioprocess development for the L-asparaginase production by recombinant strain and its evaluation as food additive for acrylamide free products	Dr. V. V. dasu	1969800
93	Deciphering the role and architecture of CRISPR Cas defense system in Leptospira interrogans	Dr. M. Kumar	4795000
94	Elucidation of the substrate delivery and specificity mechanism of solute binding proteins cognate to the ABC transporters	Dr. S. P. Kanaujia	2400000
95	Role of store operated calcium entry in diabetes and hyperlipidemia induced vascular smoot muscle dysfunction	Dr. P. Sukumar	2490000
96	Understanding the role of cellular cross talks for cartilage tissue repair using a 3D co-culture tissue model (RGYI)	Dr. B. B. Mandal	3706000
97	Development of novel tissue engineered silk biomaterial based wound dressing patch for diabetic foot ulcers	Dr. B. B. Mandal	4295000
98	An investigation on the expression of various pretein tyrosine kinases and their phosphorylated form in different stages of the development of Oral Squamous Cell Carcinoma	Dr. A. Kr. Kunnumakkara	4670000
99	Real-time quantitative RT-PCR based expression profiling of matrix metalloproteinases and their inhibitors in prostate cancer cell lines	Dr. A. Mukund Limaye	2400000
100	An investigation of the therapeutic potential of buttein isolated from toxicodendron verniciffuum against human oral squamous carcinoma	Dr. A. K. B. Kunnumakkara	2255000
101	Molecular Mechanism of Ribosome Asembly in Bacteria	Dr. B. Anand	5880000
102	Carbon monoxide convesion using native hydrogenogenic microorganisms for sulphate-rich wastewater treatment	Dr. K. Pakshiranjan	750000
103	Forecasting air quality impacts of episodic conditions occurring at traffic intersections in a mixed use urban environment	Dr. S. B. Gokhale	70000
<b>TOTAL PROJECTS 103</b>		<b>AMOUNT</b>	<b>328700675</b>

Project under taken by Department of Chemical Engineering during last five finanacial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
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1	Dynamic shaping of laser beams and design of high precision wavefront sensor with adjustable detector geometry	Dr. B. R. Boruah	500000
2	Synthesis of Biodegradable Lubricant Base Stock via Epoxidised Vegetable Oil (Non Edible/ Waste Oil)	Dr. V. V. Goud	500000
3	Hydrodynamic of Heavy Crude Oil-Water Two Phase Flow	Dr. T. K. Mandal	500000
4	Influence of porous substrates on the instabilities and patterning of thin polymer films	Dr. D. Bandyopadhyay	500000
5	Understanding the Crystallization of diblock copolymer by molecular simulation	Dr. Ashok Kumar Dasmahapatra	500000
6	To Strengthen the research activities in the area of Fluid Mechanics , Advanced materials & Clean Energy and simulation studies	HOD, CLE	22500000
7	Process intensification in drag reduction in high viscous multi- phase flow through pipeline	Dr. Subrata Kr. Majumder	830800
8	Novel supported ionic liquid Membrane for the extraction of endocrinedisrupting chemicals from Aqueouss solution	Dr. K. Mohanty	1639000
9	Development and Charecterization of Low cost Creamic Composite Membrane for separation of Dyes from Aqueous Solution	Dr. G. Pugazhenthii	1960000
10	Optimized production of Bioethanol and Biohydrogen from ligocellulosic biomass in a fluidized - bed reactor	Dr. K. Mohanty	646000
11	Assesment of matel Nanostructure for Hydrogen Stroage	Dr. S. Gumma	1745100
12	Investigation of Diblock Copolymer Crystallizations by molecular simulation	Dr. Ashok Kumar Dasmahapatra	3002000
13	Sub and Subortical water pretreatment of Lignocellulosic Biomass for bioconversion to Ethanol	Dr. V. V. Goud	1792000
14	Stabilization of soft colloidal dispersions by mixed-surfactants experimental and theoretical studies	Dr. Pallab Ghosh	460000
15	Preparation and characterization of low cost silver-ceramic composit menbrances for Bacteriostatic and drinking water treatment applications	DR. R. Uppaluri	680000
16	Development of low cost membrances for juice clarification	Dr. R. Uppaluri	1887300
17	Gas separation in Nanostructured Membranes	Dr. Amit Kumar	500000
18	Development of Gamma- ray Desitometry for studing Multiphase Reactors	Dr. Rajesh Kumar Upadhyay	500000
19	Development of High-performance Stereo-block Poly (lactic acid) "sb-PLA" for Engineering Application	Dr. V.Katiyar	500000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

20	Development of plant prototype for removal of ammonia, arsenic and odorous compounds from water/ wastewater by ozone microbubbles	Dr. Pallab Ghosh	1543566
21	Design fabrication of a membrane based hydrogen separation system	Dr. Rajesh Kr. Upadhyay	4800000
22	Effect of surfactants on drag and mass transfer phenomena of bubbles rising in power-law fluids	Dr. Nanda Kishore	500000
23	Fabrication of low cost dense Palladium composite membrane for Hydrogen energy applications	Dr. R. Uppaluri	1942440
24	Visualization of Pebbles movement in innovative high temperature reactor using radioisotope technique	Dr. Rajesh Kr. Upadhyay	1998500
25	CO <sub>2</sub> capturer by CO <sub>2</sub> selective thin film composite polymeric membrane containing amine carrier	Dr. B.Mandal	7396263
26	Dispersion and Dissolution of Ionic Liquids: Theoretical Predictions & Experimental Validation	Dr. Tamal Banerjee	1640000
27	Process intensification of flotation by ionic micro bubbles	Dr. Subrata Kr. Majumder	905000
28	Dynamic behaviour and mixing characteristics of two immiscible liquids in a horizontal micro device	Dr. T. K. Mandal	1859000
29	New Generation Degradable Thermoset Resins and Structural composites "Bio-Thermoset"	Dr. V. Katiyar	2220000
30	Development of Bioplastic based Sustainable Nanobiocomposite Food Packaging Sustain- Nano PACK	Dr. V. Katiyar	9743000
31	Super Critical Fluid Extraction of Natural Antioxidants for Food Preservation from Spices and Non-conventional Fruits Endemic in North Eastern Region	Dr. V. V. Goud	7565000
32	Flow behavior of heavy oil-water in pipe-network and in an incline pipe line	Dr. T. K. Mandal	1372000
33	Development of Electrochemical Reactor and Solid Electrolyte for Efficient Conversion of CO <sub>2</sub> into Value Added Products	Dr. A Verma	4428562
34	Design and application of carbon based hetero modified nano-porous materials for hydrogen storage	Dr. Mahuya De	3365000
35	Poly-N- Vinylamides derivatized fouling-resistant membranes for industrial applications	Dr. M. K. Purkait	2466000
36	Preparation, characterization and application of fouling free PAS membrane using polymeric nanoparticles	Dr. M. K. Purkait	1500000
37	A Computational Study on the Phases Separation Induced Pattern Formation Employing Ultrathin Films	Dr. Dipankar Bandyopadhyaya	1650000
38	Development of Degradable Food Packaging Technology "Green-PACK"	Dr. V. Katiyar	2997000



39	A comparative study of mathematical programming and artificial intelligence based optimization techniques for solving combinatorial optimization problems	Dr. Prakash Kotecha	500000
40	Study of interaction between pneumatic spray nozzle and bubbling gas fluidized bed using radioactive particle tracking (RPT) and y-ray densitometry	Dr. P. Tiwari	2278950
41	Development of efficient bioleaching process for the metal recovery from spent catalysts (RGYI)	Dr. V. V. Goud	894000
42	Quantum chemical understanding of solvent extraction mechanism of metal ions in novel ionic liquid medium	Dr. T. Banerjee	2109050
43	Natural Gas Purification by CO <sub>2</sub> - Selective Silica Membrane`	Dr. B. Mandal	1942000
44	Studies on confinement -induced polymer crystallization by molecular simulation	Dr. A. K. Dasmahapatra	1207000
45	Utilization and synthesis of fly ash based bi-functional catalyst in bio-diesel production	Dr. M. K. Purkait	1965480
46	Experimental and numerical investigation of suspension flow in Microfluidic Bifurcation channels	Dr. A.Singh	3968000
47	Ionic liquids supported thermal dehydrogenation of ammonia borane	Dr. T. Banerjee	3476400
48	Application of radiotracer techniques in design of circulating fluidized bed for higher production of propylene	D. A. Singh	1675875
49	Concurrent electrochemical generation of hydroxyl radicals or its precursor H <sub>2</sub> O <sub>2</sub> both at anode and cathode surfaces and its utilization in pharmaceutical wastewater treatment	DR. A. K. Golder	2620000
50	Development of solar powered microbial fuel cell (photo MFC) for integration with photo fermentative biohydrogen production for bioelectricity generation	Dr. A. Verma	845000
51	Design and development of intelligent catalytic nanobots	Dr. D. Bandyopadhyay	4136000
52	Drag and mass transfer phenomena of contaminated bubbles/ droplets in Non- Newtonian liquids	Dr. N. Kishor	2104000
53	Identification of competent alkali- surfactant- polymer formulations for enhanced oil recovery of Assam crude oil	Dr. P. Tiwari	924720
54	Modeling and scheduling of membrane maintenance activities	Dr. Senthilmurugan S	500000
55	Development of a Mathematical Model for Solid MATERIAL Conversion to useful Chemicals through Chemical & Physical Processes	Dr. Pankaj Tiwari	500000
56	Centre of excellence on sustainable polymers	Dr. V. Katiyar	60000000

**TOTAL PROJECTS 56**

**AMOUNT**

**192680006**

Project under taken by Department of Chemistry during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	Towards the Expansion of the Genetic Code: Design, Synthesis and Study of Photophysical Properties of Fluorescent Unnatural Amino Acids (FUAA) and their Diversified Applications	Dr. S. S. Bag	1313400
2	Dioxygen activation and haloperoxidase activity by mononuclear non-heme iron (II) complexes	Dr. C. V. Sastri	3944000
3	Stereoselective Synthesis of Substituted Tetrahydropyrans and their Nitrogen and Sulphur Analogues	Dr. A. K. Saikia	1315200
4	Newer methods of growth, assembly and patterning of nanoparticles	Dr. Anumita Paul	2267200
5	The role of aqueous solutions of trimethylamine -N-oxide (TMAO) on the pressure induced hydrophobic interactions and the pressure induced hydrogen bond properties and dynamics	Dr. S. Paul	2138200
6	Towards the expansion of the genetic alphabet: Design, synthesis and study of physical/photophysical properties of unnatural nucleoside base analogues and incorporation into short oligonucleotide sequences	Dr. S. S. Bag	3762400
7	Development of Novel Oxidative Desulphurization Process for Removing Sulfur from Diesel	Dr. T. Punniyamurthy	1036000
8	FIST Program (Level - II)	Head of Dept., Dept of Chemistry	24000000
9	Development of Metallo - supermolecular Polymers	Dr. P. K. Iyer	3523200
10	Synthesis and Characterization of highly efficient fluorescent and phosphorescent molecular materials having hetero atoms for optoelectronics devices applications	Dr. M. Qureshi	3378000
11	Interaction of Phosphatidyl inositol with Phox Homology (PX) Domain: Elucidation of Mechanistic Principal and Strategies for Therapeutic Intervention	Dr. D. Manna	1485000
12	Design, Synthesis of Nucleoside Base Analogues and Their Application	Dr. S. S. Bag	500000
13	Mechanistic Insights into the Phosphatidyl Inositol (P) Binding Properties of Human Nischarin-Phox Homology (PX) Domain	Dr. Debasis Manna	500000
14	Design and development of organic light emitting diodes (OLED) and photovoltaic (PV) devices	Dr. P. K. Iyer	4015000
15	Nitric oxide reactivity of Copper Complexes	Dr. B. Mondal	3323000

16	Elucidation of peroxy nitrite decomposition by Non-Heme complex: Special, Electrochemical and Pulse radiolysis Study	Dr. C. V. Sastri	1490875
17	Core shell/Core-Spacer-shell approach to nano magnetic/ fluorescent molecules towards bi-functional system	Dr. M. Qureshi	2430250
18	Group transfer and mechanistic investigation of some unprecedented reactions	Dr. B. K. Patel	3270000
19	Mechanistic insights into the phosphatidyl inositol (PI) binding properties of Caenorhabditis Elegans protein Mig 10 A and its Pleckstrin Homology (PH) Domain	Dr. D. Manna	1700000
20	Development of Modified Nucleic Acids and DNA-PNA-DNA Chimera for High-Throughput Genomic Mutational analysis, Gene Diagnosis and Array Assay	Dr. L. M. Kundu	500000
21	Chiral recognition and separation of amines and amino alcohols inside Ni (II) based metallocavity	Dr. M. Ray	5078000
22	Development simple fluorescence sensors for Chemical applications	Dr. G. Krishnamoorthy	4513600
23	Synthesis Characterization of New nitrogenous ligands and their transition metal complexes	Dr. V. Manivannan	3590000
24	Thioamido Guanidines as potential drug candidates towards Tuberculosis and Malaria	Dr. B. K. Patel	900000
25	Reactivity of metal-nitrogen multiplier bounded non-heme iron (IV) complexes towards organic substrates	Dr. C. V. Sastri	900000
26	Carbon-Sulphur bond cleavage as route to synthesize inorganic complexes	Dr. J. B. Baruah	1827000
27	Synthesis of Nucleobases with modified base-pairing properties and synthesis of non-natural oligonucleotides to develop FRET based probes for detection of single nucleotide polymorphisms and DNA lesions	Dr. Lal Mohan Kundu	1250000
28	Self-assembled Peptide based polymers using Host-Guest Chemistry of cucurbiturils	Dr. Debapratim Das	500000
29	Design and Development of functional materials for the fabrication of organic light emitting diodes (OLEDs)	Dr. A. S. Achalkumar	500000
30	Total Synthesis of Anticancer Natural Product, Phomocarcherin B and Biological Evaluation of its Synthetic Analog	Dr. Chandan K. Jana	500000
31	Radical-Containing Transition Metal-Complex Catalyzed Aerial Oxidation of Alcohols to Aldehydes	Dr. Chandan Mukherjee	500000
32	Pinning and Unpinning of Scroll Waves in Excitable Systems	Dr. Suman Dutta	500000
33	Enantioselective Total Synthesis of Ratjadone A using Organocatalysis Strategy	Dr. Subhas Chandra Pan	500000

34	Study of Ultrafast Electron Transfer in Hydrogen-bonded Complexes	Dr. Kalyanasis Saha	500000
35	Luminescent Discotic Liquid Crystal for the Application in Organic Light Emitting Diodes (OLEDs)	Dr. A.S. Achalkumar	2441500
36	N-Vinyl and N-Alkynyl Pyridinium and Ammonium Tetrafluoroborate Salts: New Electrophilic Reagents in Asymmetric organocatalysis	Dr. S. Chandra Pan	2695000
37	New Aminocatalytic Asymmetric Transformations	Dr. S. Chandra Pan	2034200
38	Counteraction of osmolyte trimethylamine-N-Oxide on pressure induced and urea induced denaturation of proteins BPTI and Rnase A: Molecular Dynamics Simulation Study	Dr. Sandip Paul	1062000
39	The mechanism of Bioprotective effect of trehalose through hydrophobic and hydrogen bonding interactions on peptide and polypeptide: A molecular dynamics simulation study	Dr. Sandip Paul	2272250
40	Study of C-H activation for the synthesis of benzofused azoles	Dr. T. Punniyamurthy	4846000
41	Synthesis of Aryl Substituted 1,2,3- Triazoles and 1,2,4- Triazoles	Dr. T. Punniyamurthy	600000
42	Design and Development of Chiral Macromolecules for Chiral Recognition and Asymmetric Catalysis	Dr. T. Punniyamurthy	1792000
43	Newer Approaches to Heterocycles: Mechanistic Investigation & Application	Dr. B. K. Patel	1560000
44	Total Synthesis Studies on Potential Anticancer Natural Products isolated from Azadirachta Indica (Neem)	Dr. Chandan K. Jana	1415000
45	Total Synthesis Studies on Potential Anticancer Natural Products and their Unnatural Derivatives	Dr. Chandan K. Jana	2420000
46	Development of water oxidation catalysts, single molecule magnets (SMMs) and magnetic resonance imaging (MRI) contrast agents, employing a common backbone	Dr. Chandan Mukherjee	2420000
47	Synthesis of Sensitizers for Dye Sensitized Solar Cell"	Dr. Chandan Mukherjee	2203125
48	Asymmetric Organocatalytic Tandem Cyclization and Cycloaddition Reaction with 1-Acetylcyclohexene	Dr. S. Chandra Pan	1690000
49	Design Synthesis and Biological Activities of Protein Kinase Activators	Dr. Debasish Manna	2242000
50	Developing of new conjugated materials for optoelectronic devices	Dr. P.K. Iyer	8400000
51	Synthesis of modified Nucleobases and modified Nucleic Acid for Bimolecular application	Dr. Lal Mohan Kundu	2280000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

52	Synthesis and Characterization of Efficient Molecular Materials based on Organic-inorganic Blends for Organic Light Emitting Diodes	Dr. M. Qureshi	1300000
53	Self-assembled stimuli responsive peptide based polymeric soft materials using cucurbituril	Dr. Debapratim Das	2620000
54	Equipment (Fluorescence Spectrometer) subsidy grant from Alexander von Humboldt Foundation, Germany	Dr. Debapratim Das	1537749
55	Supramolecular self-assemblies of peptide amphiphiles-design, synthesis, characterization and prospective applications	DR. A. Dasgupta	2010000
56	Peptide based soft-Nano Composites: Design, Synthesis and Potential Applications	Dr. D. Das	1632000
57	Design and Synthesis of Polyohilic Discotic Liquid Crystals for the application in Organic Electronics	Dr. A. S. Achalkumar	4880000
58	Genotyping single nucleoside polymorphisms (SNPs) with fluorescently modified nucleoside/oligonucleotide probes	Dr. S. S. Bag	8212000
59	Self-Organization and filament Dynamics in Reaction-diffusion Systems	Dr. S. Dutta	3310000
60	Effect of electron donating and electron withdrawing substituents on single strand breaks in selected DNA fragment induced by low energy electron	Dr. M. Sarma	2946000
61	Effect of osmolytes urea and trimethylamine-N-oxide on hydrophobicity and protein folding/unfolding under confinement	Dr. S. Paul	2070000
62	Interacting molecules and nanoscale materials	Dr. A. Chattopadhyay	1692000
63	Arresting Pre Fibrillar Aggregates of Alzheimer's Amyloid by Synthetic Antibodies	Dr. B. Mandal	3175000
64	Understanding the Interaction between Cucurbituril and Amphiphilic Molecules in Aqueous Medium to prepare Novel Self-assembled System	Dr. D. Das	1993125
65	Development of Nitrobenzofurazan, Indazole, Triazole and Triazine derivatives as Potent and Selective Inhibitors of Indoleamine 2,3 Dioxygenase	Dr. D. Manna	2500000
66	Application of smooth exterior scaling method	Dr. A. K. Gupta	3982400
67	Supramolecular self-assembly and anion coordination Chemistry of multidentate ligand	Dr. Gopal Das	1542000
<b>TOTAL PROJECTS 67</b>		<b>AMOUNT</b>	<b>175225674</b>

Project undertaken by Department of Civil Engineering during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	Scale of Mixing & Oxygen Transfer in Surface	Dr. Bimlesh Kumar	500000

**IITG/78-BOG/MINUTES**  
**27 OCTOBER 2014**

	Aerators		
2	Vulnerability of lakes in North-Eastern India to eutrophication and acidification	Dr. Sujata Ray	500000
3	Seismic Behaviour of Reinforced Concrete Beam Column Connections (Royal Society International Project 2008/R4)	Dr. S. K. Deb	960000
4	Integrated Land Use Planning & Water Resource Management	Dr. A. K. Sarma	27726000
5	Flood Modeling for Trans - boundary river under Defence Strategic Scenarios: Mathematical modeling	Dr. S. Dutta	1718100
6	Numerical Modeling of Plain Strain Plasticity Induced Crack Closure Effects for Bi-Material Interfacial crack	Dr. K. Darunkumar Singh	1450000
7	Evaluation of Seismic Earth Pressures on Retaining Structures: A Comprehensive study	Dr. A. Murali Krishna	970000
8	Vehicle gap maintaining behaviour under varying traffic conditions and its effect on flow-occupancy relationship	Dr. Mallikarjuna C	1398000
9	Directed Numerical Simulations of turbulent Rayleigh-Benard convection: Dynamic of large-scale flow and rotational effects	Dr. Arnab Kumar De	500000
10	Permeability of fly ash under stress using a combined setup of oedometer and permeability devices	Dr. Ajanta Suchan	500000
11	Wavelet Based Damage Detection in Beams with Transverse Cracks	Dr. Arunasis Chakraborty	500000
12	High rate composting of institutional organic wastes	Dr. A. Kalamdhad	500000
13	Analytical investigation of geometric configuration of reinforced concrete wall-footing for earthquake-resistant design	Dr. Kaustubh Desgupta	500000
14	Virtual Class Room	Dr. D. Goswami	1180000
15	Technique development for generation probabilistic flood waves of different recurrence periods	Dr.S. Dutta	1400000
16	Seepage effect on regime condition of alluvial channel	Dr. Bimlesh Kumar	2400000
17	Ganga River Basin Management Plan	Dr. M. Jawed	5950000
18	Performance Appraisal of Concrete in Chloride and Sulfate Environment	Dr. B. Pradhan	1920000
19	To strengthen the research activities in the area of structural Engineering & Water resources	HOD	30500000
20	Feasibility Study of Dimensional Building Information Model in Public Pvt. Partnership Project	Dr. L. Boeing Singh	500000
21	Application of amine based for Polymers for removal and recovery of acid azodyes from waste water	Dr. Saswati Chakraborty	1176000
22	Potential of aerobic digestion (composting) and Anaerobic digestion of kitchen waste	Dr. A. Kalamdhad	2079880

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**27 OCTOBER 2014**

23	Sesmic Requalification of Geotechnical structure	Dr. A. Murali Krishna	1452500
24	Effect of the salt on the Swelling, Hydraulic and compressibility behavior of Bentonites	Dr. Anil Kr. Mishra	500000
25	Seismic Vulnerability Assesment of Building Tupes in India	Dr. K. Dasgupta	2520000
26	Modeling river level variations using satelite altimetry and applications in water resources management	Dr.S. Dutta	960000
27	Development of Indo-Highway Capacity Manual (HCM)	Dr. A. Kr. Maurya	10045000
28	Development of adjustable tuned mass damper for vibration control in passive or semi active mode	Dr . A. Chakraborty	1475000
29	Composition of water Hyacinth using different composition technologies	Dr. A. Kalamdhad	1700000
30	Validation and qualification of structural static/dynamic models for containment structures under impact and reliability based design evaluation	Dr. H. Sharma	2337900
31	Micro - Aerobic Process of Sulfate Reduction to Elemental Sulfur	Dr.P.K.Ghosh	1660000
32	Hydro-Chemical evaluation of bentonite-fly ash as backfill material in near surface hazardous waste disposal facility	Dr. Sreedeeep S.	4000000
33	Dynamic Behavioural Data Collection using an Instrumented Vehicle	Dr. A. Kr. Maurya	1308000
34	Stochastic Simulation of aftershock ground motion and structural safety evaluation considering main shock aftershock sequence	Dr. Sandip Das	500000
35	Reliability Assessment of Seismically Resistant Buildings Subject to Blast Loading	Dr. Hrshikesh Sharma	500000
36	Innovation in Science Pursuit for Inspired Research (INSPIRE AWARD)	Dr. T. V. Bharat	3500000
37	Determining the suitability of Assam aggregates of different sources as ingredient for microsurfacing	Dr. T. L. Ryntathiang	3997198
38	Development of hydrological module for different hillslope processes	Dr. S. Dutta	290000
39	Performance-Based Probabilistic Capacity Models for Concrete Structures subject to Blast loading	Dr. H. Sharma	2156200
40	Design and evaluation of closure cap system for near surface radioactive waste disposal facility	Dr. S. Sreedeeep	2473613
41	Evaluation and enhancement of seismic capacity of Assam type housing	Dr. H. B. Kausik	3872500
42	Development of biorector system for simultaneous removal of multi- pollutants such as iron, nitrate, arsenic and fluride from ground water	Dr. P. K. Ghosh	1408628

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43	Evaluation of the urban road network in terms of the traffic and road way conditions: a case study of Guwahati	Dr. Mallikarjuna C.	2738164
44	Study on lowering of mixing and compaction temperatures of bituminous mixes through warm through warm mix asphalt addition	Dr. R. Choudhury	5903100
45	Astudy on feasibility of PPPs as mitigation strategy for climate change	Dr. L. Boeing Singh	1569264
46	Structural health monitoring of steel bridge using nonlinear solitary waves	Dr. A. Shelke	500000
47	Green House gas emission and Carbon Sequestration	Dr. Manish Kumar Goyal	500000
<b>TOTAL PROJECTS 47</b>		<b>AMOUNT</b>	<b>142695047</b>

**Project under taken by Department of Computer Science and Engineering during last five finanacial year 2009-2014**

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Design, Development and Verification of Network Specific Intrusion Detection System using Failure Detection and Diagnosis of Discrete Event Systems	Prof. S. Nandi	11172000
2	Intelligent Robot Human Interaction and Embedde System	HOD	8600000
3	Algorithms for visibility regions in polygons/polytopes	Dr. R. Inkulu	340000
4	Algorithm for optimizing task and data mapping on 3D stacked memory large chip multi-processors (LCMP).	Dr. Aryabartta Sahu	476000
5	Microsoft Research India Rx Lab Programme 2010 (CSE Summer Interns)	HOD, CSE	450000
6	Ramanujan Fellowship to Dr. Saswata Shannirahi at Indian Institute of Technology Guwahati	Dr. Swswata Shannirahi	7300000
7	Integration of diverse genomic data and prior topological information for global regulatory network inference	Dr. Ashish Anand	500000
8	Infrastructure for Mining Collaborative Knowledge Repositories	Dr. Amit Awekar	500000
9	Mining representative terms of Web documents	Dr. Sanasam Ranbir Singh	470000
10	Development of pronunciation lexicon based on experimental study of phonetics and phenemics of Indain Language	Dr. P.K. Das	3766000
11	Reducing Cache access Time in Tiled Chip Multi Processors	Dr. H. K. Kapoor	7900000
12	On Line Testing of Complex VLSI Circuits using FDD Theory of Discrete Event system	Dr. Snatosh Biswas	12400000



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13	Design, Development of a Watermarking System For Scalable Video Authentication	Dr. A. Sur	10205000
14	Setting up Akash Lab at IIT Guwahati	Dr. S. Ranbir Singh	5500000
15	Shot based Video Watermarking for Very low bit Rate Video	Dr. A. Sur	640000
16	Developing the Theory of Binomial Ideals for Multicore Architecture	Dr. Deepanjan Kesh	500000
<b>TOTAL PROJECTS 16</b>		<b>AMOUNT</b>	<b>70719000</b>

Project under taken by Department of Design during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Design of Gear Avalanche Survival	Dr. R. M. Punekar	3122064
2	Design and evaluation of play ground for primary school children in virtual environment	Dr. Sougata Karmakar	500000
3	Design and Development of Enabling (assisting) Devices for Elderly in the context of Home and Travel	Dr. A. K. Das	3083000
4	Visual and tactile information processing in product selection process	Dr. Sougata Karmakar	4083000
5	Design Development of an information system to educate pregnant women and their relatives about prenatal problems and care	Dr. Keyur Sorathia	350000
6	IBM Shared University Research (SUR) Award 2012	Dr. Keyur Sorathia	550000
7	Design and development of gesture user interface for developing regions	Dr. Keyur Sorathia	211200
8	3D gesture control research collaboration	Dr. Keyur Sorathia	837480
9	Accessibility and user interface	Dr. Keyur Sorathia	212000
<b>TOTAL PROJECTS</b>		<b>AMOUNT</b>	<b>12948744</b>

Project under taken by Department of Electronics and Electrical Engineering during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Design of carbon nanotube field effect transistor (CNFET) based amplifiers	Dr. R. P. Paily	1950000
2	Optimal Controllers for Nonlinear Systems Using Neuro-Fuzzy Approach and Application to under-actuated system	Dr. Indrani Kar	500000
3	Development of person Authentication System based on Speaker Verification in Uncontrolled Environment	Dr. S. R. M. Prasanna	10900000
4	Characterization and Compensation of Acoustic and Linguistic Mismatch for Robust Automatic Recognition of Children's Speech	Dr. Rohit Sinha	1803480

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5	Establishment of new National MEMS Design Centres	Dr. R. P. Paily	1116000
6	Upgradation & setting of laboratories in the Department of Electronics & communication Engineering under fund for improvement of S&T infrastructure (FIST) scheme	HOD, DEPT. OF ECE	10800000
7	Design, fabrication and testing of low power analog front-end chip for Heart rate detection	Dr. R. P. Paily	1998900
8	Development of on line handwriting recognition system for Indian language (OHWR) - Phase II-Deployment of an application and improvement of engine performance	Dr. S. R. M. Prasanna	7000000
9	Development of robust Document image understanding System for Document in Indian Scripts (OCR) Phase-II	Dr. P. K. Bora	2875000
10	Speech-based Access for Agricultural Commodity Prices in Six Indian Languages	Dr. Rohit Sinha	5762000
11	Computer assisted therapy and rehabilitation for speech, hearing and language pathologies	Dr. S. R. M. prasanna	1250000
12	Development of text to speech system in Indian Language Phase II	Dr. S. R. M. Prasanna	10814000
13	Development of speech based multi-level person authentication system	Dr. S. R. M. Prasanna	16247000
14	Development of prosodically guided phonetic engine for searching speech database in Indian language	Dr. S. R. M. Prasanna	4025000
15	Advance embedded systems laboratory	Dr. Sonali Chouhan	572000
16	Design and Implementation of a Blind Assistance System using FPGAs and Sensors	Dr. R.P. Paily	7026000
17	Navigation & path planning of mobile robots and extension to multi-agent system	Dr. Indrani Kar	1344000
18	Multi-Model Broadcast Analytics-Structured Evidence Visualisation for Event of Security Concern	Dr. Prithwijit Guha	13951000
19	Emotional Speech processing using source, system and suprasegmental features	Dr. S. Dandapat	1185000
20	Automated Surveillance using Machine Learning	Dr. Amit Sethi	774000
21	Robust Control of a Robotic Manipulator using Sliding Mode Controller	Dr. Chitralekha Mahanta	1500000
22	Point Relaxation and LUT based Efficient Circuit Simulator for Novel Devices	Dr. Gaurav Trivedi	500000
23	Nonlinearization of Word Based LFSRs	Dr. Srinivasan Krishnaswamy	450000
24	Improved Flood Inundation Mapping Using Pattern Recognition Techniques	Dr. Amit Sethi	475000
25	Design and Characterization of Wavelength Division Multiplexing System	Dr.R.K.Sonkar	480000

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26	Multi-Model Broadcast Analytics-structured Evidence Visualization for event of Security Concern	Dr. Prithwjit Guha	13951000
27	Dual mechanical port motor based electric vehicle power train	Dr. P. Kumar	5499860
28	Pattern Recognition Techniques for Online Handwriting Signature Verification	Dr. S. Sundaram	500000
29	High performance computing using GPU	Dr. G. Trivedi	153512
<b>TOTAL PROJECTS 29</b>		<b>AMOUNT</b>	<b>125402752</b>

Project under taken by Department of Humanities and Social Sciences during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	Megaliths in Changing Times: A Study in Cherrapunji	Dr. Sukanya Sharma	50000
2	Source Book on Archaeology of Himalayan Region: Arunachal Pradesh	Dr. S. Sharma	240000
3	Development a Measure for Inequitable Household Access to Water in Urban India	Dr. Anamika Barua	306900
4	Water, Climate Change and Rural Livelihoods: Assessing Socio-economic Vulnerability and Potential Adaptive Strategies in Sikkim, India	Dr. Anamika Barua	490000
5	Combating trafficking in Assam: Analysis of role of women's group in re-integration programmes	Dr. Sawmya Ray	497000
6	Climate Change Water and Rural Livelihoods: Assessing Socio- economic Vulnerability and potential Adaptive Strategies in Eastern Himalayan Region, India	Dr. Anamika Barua	1000000
7	Gendered consequences understanding, Sex trafficking in the context of armed conflicts in North East India	Dr. Sawmya Ray	300300
8	Culture in Dialogue: Re visiting the Vaishnavite renaissance in North East India	Dr. Archana Barua	1361000
9	Islamic Heritage in India North East	Dr. Abu Nasar Saied Ahmed	2133000
10	Effect of sleep on the strategies of route learning in virtual town environment in humans	Dr. Naveen Kashyap	1260000
11	Livelihood study in the KBK Region of Orissa Identification of the Gap and Providing a Statistical Database for the development Planners of the State	Dr. R. Bedamatta (Co PI)	500000
12	Climate change and Tourism – A case study from North Eastern States of India	Dr. A. Barua	500000
13	Women workforce participation under employment programmes and its contribution to household food security: A study of Assam and Meghalaya	Dr. Rajshree Bedamatta	499000

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14	A phonological and Social Linguistic study of variations in Deori	Dr. Ahakuntala Mahanta	682685
15	Building capacities from the margins: Constructive governance, democratic deeping and sustainable peace in post conflict and fragile situations in Eastern India	Dr. Pahi Saikia	500000
16	Seduction, sale & Slavery Trafficking of women and children in North East India	Dr. Swamy Ray	591250
17	Acoustic and Tonal Features based analysis of Mizo	Dr. Priyankoo Sarmah	7368000
18	Digital preservation analysis and technology development of language of the North East	Dr. Sankuntala Mahanta	16482000
19	Adaptation to the chronic poverty and deprivation: An investigation into the dynamics of subjective well-being and life satisfaction.	Dr. Dilwar Hussain	500000
20	Vowels, Tones and Rhythm in Rabha	Dr. Priyankoo Sarmah	500000
21	Ethnic Philosophies of the Tribal People	Prof. Archana Barua	500000
22	REM- Sleep dependent consolidation of prospective memory	Dr. N. Kashyap	4410000
23	POTTERY MAKING AND ITS PROSPECT FOR RURAL EMPLOYMENT: KUMAR AND HIRA COMMUNITIES	Dr. S. Sharma	700000
24	A typological map of the language- cognition interface in the domain of conceptual metaphor	Dr. B. Som	1355000
25	A broad Sociolinguistic Study of Vowel Variation in Assamese	Dr. P. Sarmah	1500000
26	An ethno-linguistic account of sensory perception among the Bodos in North East India	Dr. B. Som	175225

**TOTAL PROJECTS 26**

**AMOUNT**

**53401360**

Project under taken by Department of Mathematics during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Designing a robust protocol for secured topology discovery in wireless sensor network	Dr. P. S. Mandal	500000
2	Simple closed Geodesics in hyperbolic 3- manifolds	Dr. Palaparthi Anantha Sai Sre Krishna	410000
3	Discrimination among higher dimensional distributions	Dr. Arbin Kr. Dey	430000
4	Distance problem for structures matrix polynomials	Dr. Shreemayee Bora	428400
5	NBHM Post Doctoral Fellowship in the Department of Mathematics	Dr. J. Anuradha	6800000

6	Irrationality of certain Hilbert-Kunz Multiplicities	Dr. Shyamashree Upadhyaya	490000
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**TOTAL 6**

**AMOUNT**

**9058400**

Project under taken by Department of Mechanical Engineering during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	Design development and performance evaluation of stress wave force balances for aerospace applications	Dr. N. Sahoo	1440000
2	Forming Behaviour of Friction Stir Welded (FSW) Blanks made of Dissimilar materials	Dr. R. G. Narayan	3109000
3	Development of high sensitivity, low cost thin film sensors for heat transfer rate measurement in high speed fluid flows	Dr. V. N. Kulkarni	460000
4	Smart Damping of geometrically nonlinear vibration of functionally graded panels under thermal environment using piezoelectric fibre reinforced composites	Dr. Satyajit Panda	500000
5	Strengthening the research activities in the area of Micro-fabrication and Condition Monitoring area (FIST)	HoD	25950000
6	Investigations on Start up Transients in Natural Circulation Boiling Water Reactor	Dr. M. Pandey	367840
7	Preparation and characterization of nanofluid to reduce the emission level in a diesel engine	Dr. S. Kanagaraj	1830000
8	Experimental Analysis of single spark EDM craters	Dr. S. N. Joshi	500000
9	Extracting instantaneous Rotor Field information for active vibration control of Induction machine	Dr. K.Kalita	500000
10	Separation of Plasma, WBC and RBC from blood sample using cross-flow filtration and pinched- flow fractionation	Dr. Ashis Sen	500000
11	Feasibility study on Carbon Nanotubes/ Ultrahigh Molecular Weight Polyethylene Nanocomposites for total joint replacement	DR. S. Kanagraj	2464350
12	Mechanization of Spawn production and Spawn supply to Mushroom farmers group and conversion of spent Mushroom substrate into vermincompost in North Eastern Region for poverty alleviation in the North East India	Prof. S. K. Kakoty	3696000
13	Numerical study of impact behaviour of the sheets in electromagnetic welding process	Dr. Sachin Dnyandeo Kore	500000
14	Development of artificial intelligence based monitoring technique for arc welding applications	Dr. Sukhomay Pal	500000
15	"Fabrication of cost - effective IPMC actuator as artificial muscle materials for biomedical prosthetic application"	Dr Dibakar Bandopadhyaya	1850000
16	Shock tube development and verification of existing correlations for stagnation point heat transfer	Dr. N. Sahoo	1604300

17	Theoretical and experimental study of Shape Memory Alloy wire actuated compliant links	Dr. A. Banerjee	500000
18	Lattice Boltzmann modeling of Immiscible Droplet Dynamics in Micro-channels	Dr. A. Dalal	500000
19	Modeling and Analysis of Diesel Engine Exhaust Aftertreatment Systems	Dr. Chandramohan Somayaji	500000
20	Numerical and Experimental Study on Residual Stress and Distortion Control of Welded Structures	Dr. Pankaj Biswas	500000
21	Numerical simulations of unsteady, incompressible viscous flows using a Finite Volume-Immersed Boundary approach	Dr. Ganesh Natarajan	500000
22	Application of goal-oriented a posteriori error estimation procedures for the accurate computation of mode 1 stress intensity	Dr. K. S. R. K. Murthy	682600
23	Development walking apparatus (concept validation.... Feasibility, prototyping and testing	Dr. S. K. Dwivedy	9432000
24	Development of thermal energy storage system for solar thermal power plant	Dr. P. Muthukumar	11263200
25	Development of turbulent transport model in autogeneous fusion welding process	Dr. Swarup Bag	500000
26	Development of a General Purpose CFD Solver over a Hybrid Unstructured Grid	Dr. Amaresh Dalal	34216000
27	Design development of a controller for bridge configured based bearing less motor	Dr. K. Kalita	9035000
28	Active Vibration Control in Electrical Machines using Build-in-Actuator	Dr. K.Kalita	3500000
29	Numerical Modeling of All-Vanadium Redox Flow Battery	Dr. Amaresh Dalal	1608000
30	Design, Development and Performance Assessment of Multi-Fuel Variable Compression Engine	Dr. V. N. Kulkarni	1805000
31	Development of Monitoring System for Friction Stir Welding	Dr.Sukhomay Pal	924000
32	Active control of harmonically excited nonlinear vibrations of functionally graded cylindrical shells using PFRC constrained layer damping treatment	Dr. Satyajit Panda	1032000
33	Analysis of Supercritical Natural Circulation Loops with Water and Carbon Dioxide as Working Medium	Dr. Dipankar Narayan Basu	946000
34	Development of Copper (Cu)- Carbon Nanomaterial(CN) based nanocomposite formulations for heat recovery in different processes in a steel plant	Dr. S. Kanagaraj	33600000
35	Development of a I-D thermal Hydraulic Code for Computation of Unsteady Steam-Water Flow and Supercritical water Flow in Horizontal and Vertical Channel Type Reactors	Dr. M. Pandey	1203260

36	Developing light weight,durable and user friendly artificial limbs through Nanotechnology-based modification of conventional materials and optimizing mechanical component design for enhancing their functional performance	Dr. S. Kanagaraj	5687000
37	Electromagnetic Shearing of Tubes and Sheets	Dr. Sachin D. Kore	1850000
38	Numerical Investigation of Trublent rotating rayleighbenard convection in Cylindrical cell	Dr. Arnab Kumar De	1050000
39	Setting-up Rural Technology Action Group-North - East(RuTAG-NE)	Dr. S.K. Kakoty	11084800
40	Modelling and Active Control of Shape Memory Alloy Actuators	Dr. Atanu Banerjee	1692000
41	Design and Development of micro Abrasive Flow Finishing( $\mu$ -AFF) Process	Dr.Mamilla Ravi Sankar	500000
42	Nanofinishing using Magnetorheological Finishing (MRF)	Dr. Manas Das	500000
43	Developmentm of Experimental Facility for flow Visualization of Fuel Sprays and two-phase Flows	Dr. H. P. Gadgil	500000
44	Parallel Computing Tool For Structural Optimization Of Mechanical Components Using Evolutionary Algorithm	Dr. Deepak Sharma	500000
45	Development and Experimental Characterization of a Supercritical Natural Circulation Loop Considering Steady-state and Stability Aspects	Dr. D. N. Basu	500000
46	Feasibility Studies for Generating Electric Power using Helical Water Turbine	Dr. V. N. Kulkarni	2722560
47	Development of a conjugate heat transfer solver for hypersonic applications	Dr. V. N. Kulkarni	1063000
48	Building Global Engagements at University of Nottingham	Dr. P. Mahanta	350000
49	Nanofinishing of freedom surfaces using magnetorheological fluid based finishing process	Dr. Manas Das	4100000
50	Development of high performance computing tool for structure topology optimization using multi- objective evolutionary algorithm	Dr. D. Sharma	1212000
51	Experimental investigation and numerical modeling of micro scale joining of similar and dissmilar materials	Dr. S. Bag	2220000
52	Improving productivity and product quality in machining of thin- walled components	Dr. S. K. Jhosi	3790000
53	Application of Topology Optimization to Compliant Switches and Inverse Boundary Value Problem	Dr. A. N. Reddy	500000
54	INAE Chair Professorship	Dr. S. C. Mishra	460000
55	Development of three- dimensional solutions for piezoelectric plates subjected to arbitrary boundary consditions	Dr. P. Kumari	500000

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56	Development of computation Algorithms for Dynamic Adhesive Contact Problems	Dr. S. S. Gautam	500000
57	J. C. Bose Fellowship Award	Dr. G. Biswas	3958061
<b>TOTAL 57</b>		<b>AMOUNT</b>	<b>203257971</b>

Project under taken by Department of Physics during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	New physics beyond standard model: search for CP-Odd light higgs boson using data from the Bar experiment	Dr. B. Bhuyan	500000
2	Preparation and Characterization of Barium Zinc Tantalate films for Complementary Metal Oxide Semiconductor applications	Dr. D. Pamu	500000
3	Atomistic Simulation of Ion Transport in Fast Ion Conductors	Dr. P. K. Padmanabhan	400000
4	To study the safe and hazardous plastics by LIBS technique to generate a database/ library for easy classification	Ms. Archana Kushwaha (Independent Researcher)	1116000
5	Development of Nano Composite Permanent Magnet Based on (FePt/Fe) <sub>n</sub> Multilayer Thin Films	Dr. A. Perumal	3513000
6	Study of self organization dynamics on complex and evolving network	Dr. S. B. Santra	1888000
7	FIST Programme	HOD	22900000
8	Propagation of ultra-high energy heavy nuclei through a magnetized large scale structure	Dr. S. Das	500000
9	Neutron Power Diffraction Studies in charge ordered and Double Exchange Ferromagnetic Samples of Nd-Mn-O	Dr. S. Ravi	35000
10	Magnetic properties in SnO <sub>2</sub> Based Nano- crystalline Diluted Magnetic semiconductor	Dr. S. Ravi	3107500
11	Development of domain wall free Fe-Ta-C based soft magnetic thin film	Dr. A. Perumal	2142400
12	Inhomogeneous superconductivity in Pauli limited superconductors	Dr. S. Basu	1023200
13	Development of Heusler Alloys based thin films for Magneto- catoric and Spintronic applications	Prof. A. Srinivasan	3492000
14	Theory of phonon excitations in substitutionally disordered alloys	Dr. Subhradip Ghosh	719000
15	Diffraction-less multidimensional light propagation in coherently controlled media	Dr. Tarak nath Dey	1881720



16	Development of High quality SiC and Diamond thin films using hot wire chemical vapor desposition technique for plasma diagnostics applications	Dr. A. Khare	3514000
17	Design and implementation of a high speed wavefront sensor of light beam	Dr. B. R. Boruah	6721000
18	Physics beyond the Standard Model: - an interplay between Particle Physcs and Early Universe Cosmology	Dr. Arunansu Sil	500000
19	Development of facilities for fabrication of amorphous silicon-crystalline silicon Heterojunction solar cells	Dr. Pratima Agarawal	3000000
20	Deposition & Characterization of Ba <sub>5</sub> Nb <sub>4</sub> O <sub>15</sub> -BaWO <sub>4</sub> films for complementary metal oxide semiconductor applications	Dr. D. Pamu	2886500
21	Optical Force In a Two & Three Level Atomic System Superimposed To An Intense Ultra-Short Pulsed Field Beyond The Rotating Wave Approximation	Dr. A. K. Sarma	1172000
22	Factors influencing fast ion conduction in solids: Atomistic modeling and computer simulation studies on NASICON-type solids	Dr. Padmanabhan Padma Kumar	3025000
23	Phases of the interacting bose gas- simulating quantum phenomena at large length scales	Dr.S. Basu	1417000
24	Design and implementation of confocal microscopes with spatial light modulator based beam scanning and programmable beam manipulation mechanism	Dr. B. R. Boruah	8966000
25	Development of few novel cubic-spinel nanostructures of type-ABO <sub>3</sub> for application in spintronics	Dr. Subash Thota	500000
26	Dielectric and Thermal Characterization of Mg(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> Ceramics for Microwave Window Application	Dr. D. Pamu	2886500
27	Innovation in Science Pursuit for inspired Research	Dr. S. Bhattacharya	3500000
28	Innovation in science pursuit for inspired research	Dr. S. M. Tripathy	3500000
29	Magnetic and magneto resistance properties of multilayer structured CoFeB alloy films for spintronic applications	Dr. A. Perumal	3946000
30	Parity-time symmetry in nonlinear optics	Dr. A. K. Sarma	1447000
31	Fe Doped In <sub>2</sub> O <sub>3</sub> Thin Films: Growth optimization and Investigation of Electrical Transport, Magnetic and Optical Properties for Spintronics applications	Dr. S. Ravi	1472000
32	Development of Semiconductor Nanowire Based Advanced Bio-sensors for Biomedical Applications	Dr. P. K. Giri	2192000
33	Deposition and characterization of Ba <sub>5</sub> Nb <sub>4</sub> O <sub>15</sub> -BaWO <sub>4</sub> films for complementary metal oxide semiconductor applications	Dr. D. Pamu	1500000

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34	Neutron power diffractin studies in transition element doped	Dr. S. Ravi	265400
35	Computation Modeling of Nanopore Sensors	Dr. S. Bhattacharya	500000
<b>TOTAL 35</b>		<b>AMOUNT</b>	<b>96628220</b>

Project under taken by Centre for Nanotechnology during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Centre for excellence in Research and Development of Nanoelectronics Theranostic Devices	Dr. A. Chattopadhyay	577500000
2	Novel nanoscale materials targeted towards antimicrobial and anticancer activities	Dr. S. S. Ghosh	8870000
3	External field driven flow induced micro/ nano scale patterning, mixing heat and mass transfer in micro/nano fluidic devices	Dr. Dipankar Bandyopadhyay	4500000
4	Controlled growth and studies on semiconductor Nanowire heterostructures for solar Photovoltaic applications.	Dr. P.K. Giri	2434750
<b>TOTAL 4</b>		<b>AMOUNT</b>	<b>593304750</b>

Project under taken by Centre for Energy during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Process Development for Fluoride removal from Drinking water utilizing Solar Energy	Dr. P. Mahanta	248400
2	Development of Polymer Electrolyte Membrane Fuel Cell using indigenously prepared low cost composite bipolar plate	Dr. Anil Verma	1330400
3	Development and analysis of twisted two-bladed, two-stage Savonius Rotor for power generation	Dr. U. K. Saha	883200
4	Concentration of Biogas slurry to preserve Microorganisms in the inoculum by novel separation techniques	Dr. Kaustubha Mohanty	684000
5	Design and Optimization of a process for Production of 1,3 Propanediol and n-Butanol from Biodiesel derived crude Glycerol using Immobilized Clostridal Strains	Dr. V. S. Moholkar	1150000
6	Studies on structure of Enzymes and their interaction with nanostructure materials for bio electronics device and other application	Prof. P. Goswami	39929000
7	Design and Development of digester for utization of lignocellulosic waste for biogas production	Dr. P. Mahanta	998520
8	Design of 25kWe pressurized circulating fluidized bed unit	Dr. P. Mahanta	3500000

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9	Utilization of Biowaste for generation power in diesel engine	Dr. U. K. Saha	991200
10	Design and Development of Compact cistern system for Blackwater reutilization	Dr. P. Mahanta	492480
11	Algal Route to CO2 capture	Dr. A. K. Ghoshal	1717000
12	A novel energy efficient hydrodynamic cavitation technique for extraction of oil from microalgae bio-diesel production	Dr. V. V. Goud	1322000
13	Development of a cost effective process for biodiesel production through direct trans esterification of wet algal biomass from high density heterotrophic cultivation	Dr. D. Das	5000000
14	Development of bioelectrodes for biofuel cell applications	Dr. P. Goswami	3372600
15	Development of supported noble metal catalysts using surfactant assisted electroless plating process for the dehydrogenation of light alkanes	Dr. M. Dey	3934450
16	Investigating the effect of co-digestion and advance sludge pretreatment methods on the anaerobic conversion potential of the organic waste (RGY)	Dr. V. V. Goud	689000
17	Rural Hybrid energy- enterprise system	Dr. P. Mahanta	8268382
18	Laser based calibration methodology for thermal sensors in combustion measurements	Dr. N. Sahoo	1240000
19	Optoelectronic and Transport Studies on Thin Silicon Films (nc-Si AND nc-Si/a--Si:H Superlattice) and Solar Cells	Dr. Pratima Agarwal	2128000
<b>TOTAL 19</b>		<b>AMOUNT</b>	<b>77878632</b>

Project under taken by Centre for Environment during last five financial year 2009-2014

SI No.	Project Title	Principal Investigator	Amount Sanctioned
1	Petroleum Wastewater Treatment in a Packed Bed Reactor Using Suitable Microorganism	Dr. A. K. Ghosal	1540400
2	Treatment of contaminated drinking water using electro coagulation technique	Dr. M. K. Purkait	960000
3	Establishment of Institutional Biotech Hub	Dr. Utpal Bora	1900000
4	Assesment of microbial communities and their biodegradation potentials in petroleum contaminated environments in Assam	Dr. A. K. Ghosal	2180000
5	Molecular investigation of epigenetic modification in exposure to environmental polluting using Neurospora crassa as a model system	Dr. Ranjan Tamuli	5500000

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6	Exploration and Characterization of Seri- Bio Resources of North East India for Potential Textile and Non- Textile Applications'	Dr. Utpal Bora	15425000
<b>TOTAL 6</b>		<b>AMOUNT</b>	<b>27505400</b>

Project under taken by Centre for Educational Technology during last five financial year 2009-2014

Sl No.	Project Title	Principal Investigator	Amount Sanctioned
1	National Programme on Technology Enhanced Learning	Dr. S. Talukdar	89300000
2	Development of an Indian Sign Language Recognition System for Hearing Impaired Students of India	Dr. M. K. Bhuyan	13000000
3	Mission Project for Virtual Labs (Pilot)	Dr. R. Bhattacharjee	20000000
4	Mission Project for Virtual Labs (Main)7	Dr. R. Bhattacharjee	20000000
5	Developing Suitable Pedagogical Methods for various classes, intellectual calibers and e-learning	Dr. J. K. Deka	1125000
6	Creating Digital Learning Environment for Design in India	Prof. R. M. Punekar	5000000
<b>TOTAL 6</b>		<b>AMOUNT</b>	<b>148425000</b>

**DEPARTMENT AND CENTRE WISE CONSULTANCY PROJECT UNDERTAKEN DURING LAST FIVE YEAR**

Department	Project Title	Principal Investigator
BIOTECH	Microbial investigation to overcome foul smell in finished liquid product	Dr. K. Pakshirajan
CHEMICAL	Pollution measurement on Insulation	Dr. A. K. Ghosal
CHEMICAL	Measurement of equivalent salt deposit density	Dr. A. K. Ghosal
CHEMICAL	"Development of Solid Electrolyte for Carbon Dioxide Electroreduction"	Dr. Anil Verma
CHEMICAL	A study on Environmentally safe drilling practices & waste management in drilling activity in ONGC's Assam & Assam Arakan Basin	Dr. Kaustabha Mohanty
CHEMICAL	Evaluation of Coal Sample	Dr. S. Gumma
CHEMICAL	Modeling and Simulation of Membrane Contractor for CO2 absorption in Amine	Dr. A. K. Ghosal
CHEMICAL	Investigation of given polymer samples to improve its rheological properties	Dr. G. Pugazhenth
CHEMICAL	Preparation of a report on comparative evaluation of acoustic cavitation and hydrodynamic captivation	Dr. V.S. Moholkar
CHEMICAL	Video course development	Dr. A. K. Ghosal
CHEMICAL	Development of Aluminum Degreaser and Shiner	Dr. A. Verma
CHEMICAL	Investigation of polymer samples for its properties	Dr. G. Pugazhenth
CHEMICAL	Video course development	Dr. R. Uppaluri
CHEMISTRY	Consultancy service regarding reviewing the Research Work of the Chemistry group of Unilever R7D Bangalore	Dr. M. Ray
CIVIL	Evaluation studies on Performance of Anti Erosion Measures for Avulsion of the Brahmaputra River at Dholla Hatighuli Phase I&II	Dr. S. Dutta
CIVIL	Four laning ---- slope at Mathur end of Nagabasti Tunnel	Dr. C. Mahanta
CIVIL	Study on sedimentation and erosion of Brahmaputra River near Pandu Ghat in connection with the Water Supply Project of GMDA.	Dr. Arup Kumar Sarma
CIVIL	Probabilistic Flood Inundation maps for Lakhimpur District, Assam using hydroinformatics concept	Dr. S. Dutta
CIVIL	Detail Hydrological Study of the dikrong-Panyor River Basin and its impact in the downstream	Dr. R. K. Bhattacharjya

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CIVIL	Examination and Scrutiny of G. S. Road & Z. N. Road staff quarters in connection with redesigning of the structures based on present I.S codes for earthquakes stresses	Dr. A. Dutta
CIVIL	Preparing the greater Mekong Subregion Flood and Drought Risk Management and Mitigation Project	Dr. A. K. Sarma
CIVIL	Modification in Design and Drawing along with issuance of GFC of 57 nos. BRIDGE ON East West Corridor project in Assam	Dr. S. K. Deb
CIVIL	Instrumentation of three numbers of steel girder bridges for running of tonne loaded boxn wagon trains on N F Railway	Dr. A. Dutta
CIVIL	Field quality assurance for the construction of bypasses from Ashuganj to Palatana	Dr. A. Chakraborty
CIVIL	Evaluation of safety of overhead water tanks at Agartala	Dr. K. Dasgupta
CIVIL	Mathematical Model Study for determining suitability of bank protection measures proposed by WR Department for protection of the erosion effected area from Dhing to Hilloikhunda located on left bank of Brahmaputra River"	Dr. A. K. Sarma
CIVIL	Proof checking of designs of road alignment for the bypass connecting NH 40 and NH 44 in the state of Meghalaya	Dr. Rajan Choudhary
CIVIL	Proof checking of design and drawing for the Bridge over river Aie	Dr. A. Dutta
CIVIL	Assessment of 9 existing damaged bridges in package No. AS 08 & AS 09 for the section from Rakhaldubi to Barpeta Road --- Technique (NDT)	Dr. S. Talukdar
CIVIL	Proof checking of six numbers of H. L. Bridge on Hasanpur - Sakhuaghat road in the district of Samastipur, Bihar Rajya Pul Nirman Nigam Ltd in Bihar	Dr. A. Dutta
CIVIL	Proof checking of Jubilee bridge across river Hooghly of Eastern Railway	Dr. A. Dutta
CIVIL	Safe Water Source Delineation through a GIS-MIS Integrated Information System and Allied Activities	Dr. C. Mahanta
CIVIL	Health study and examination of buildings/ structures of IOCL., Bongaigaon refinery (Hospital Building)- IOCL, Bongaigaon refinery	Dr. K.D. Singh
CIVIL	"Vetting of structural design and Design calculation for proposed construction of "Student's & Scientist's Home" at IASST campus, Pashim Boragaon, Guwahati-35"	Dr. S. Talukdar

CIVIL	"Mathematical Model Study for determining suitability of bank protection measures proposed by WR Department for protecting Jatiabari to Mitamari area from erosion of river Brahmaputra"	Dr. A. K. Sarma
CIVIL	Proof check pavement design for four laning of Jorabat- Shillong (Barapani) section of NH 40 in the state of Assam and Meghalaya	Dr. Rajan Choudhary
CIVIL	"Safe Water Source Delineation through a GIS-MIS Integrated Information System and Allied Activities" (New phase 1st Instalment)	Dr. C. Mahanta
CIVIL	Quality and Characterization Analysis of Solid Waste Generated from Guwahati City	Dr. A. Kalamdar, Dr. CVS
CIVIL	Proof check plan and profile for four laning of Jorabat- Shillong (Barapani) section of NH 40 in the state of Assam and Meghalaya	Dr. Rajan Choudhary
CIVIL	Lower Siang H. E. Project (2700 MW): Construction materials Investigations	Dr. Sreedeeep, S.
CIVIL	Preparation of State Disaster Management Base Plan of Meghalaya	Dr. A. Chakraborty
CIVIL	Proof checking of the design and drawings of twelve numbers of minor bridge and flyover of Jorabat- Shillong troad project (NH 40)	Dr. A. Dutta
CIVIL	Technical and Research support for capacity Building to address Water Quality issues of Assam	Dr. C. Mahanta
CIVIL	Proof checking of design and drawings of foundation, substructure of 4 nos. of bridge for N.F.Railway	Dr. A. Dutta
CIVIL	Proof Checking of Design and drawings of flyover at intersection of Pramathesh Barua Road & N.F Railway track at Bijini town under NNLCPR	Dr. A. Dutta
CIVIL	Proof Checking of Revised design of pier and foundation of bridge over umiam river at sheila that connects Mawsmmai-Sheila Road and Balat-Sheila Road	Dr. H. B. Kaushik
CIVIL	Proof Checking of design and drawings of bridge and flyover at Bhibaneswar	Dr. A. Dutta
CIVIL	NDT using Rebound hammer and Ultrasonic Pulse velocity method and also collect core from some selected foundations	Dr. A.Dutta
CIVIL	Proof checking consultancy of the structural drawings for the proposed development at Sahalimar, West Bengal	Dr. H. Sharma
CIVIL	Flood and erosion Management Project for Assam considering climate change in association with ASDMA	Dr. A. K. Sarma

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CIVIL	Assessment of Rural Drinking Water Supply Services for the World Bank-assisted RWS-LIS project	Dr. C. Mahanta
CIVIL	Proof checking of drawings and design of 70m span bow string girder across the Rly. Track	Dr. A. Dutta
CIVIL	Proof Checking of Truss (Arch type) bridge over River Siyon at Paya, Arunachal Pradesh	Dr. S. Talukdar
CIVIL	Preparation of digital land use/ land cover maps for the project site and its influencing region	Dr. S. Dutta
CIVIL	Proof checking of detailed design and drawing for Construction of Bridge No.1/1 including approaches and protection work over at Jatinga at Borkhola on Mahasadak to Borkhola road under NLCPR in Cachar District	Dr. A. Dutta
CIVIL	Investigation of material testing for Hydro Electric Project in Arunachal Pradesh	Dr. C. Mahanta
CIVIL	Impact of climate change on precipitation pattern of Barak Basin	Dr. A. K. Sarma
CIVIL	Proof Checking of Ro-Ro Jetty at Dhubri in NW 2 at Brahmaputra	Dr. A. K. Sarma
CIVIL	Safety audit of Shillong Bypass connecting NH-40 and NH-41	Dr. Mallikarjuna C

CSE	Asian ERP System Selection	Dr. Gautam Barua
CSE	Inspection of materials for CLR Project	Dr. D. Goswami
CSE	Development of Framework for Logging and Analysis of Network Traffic to Secure IT infrastructure	Dr. S. Biswas
CSE	Consultancy service for procurement of computers, printers and UPS for the third phase of the Mission and for development of multimedia content in science, Mathematics and English	Dr. G. Barua
CSE	Modernization of Land Revenue Administration	Dr. Gautam Barua
CSE	IT Consultant of NIT, Silchar	Dr. S. Nandi
CSE	Integrated Modern Software System	Dr. G. Barua
CSE	Inside View Technologies	Dr. V. V. Saradhi

DESIGN	Semi Automatic Loin Loom Technology	Dr. A. K. Das
DESIGN	Preparation of Detailed Project Report (DPR) for setting up of Common Silver Plant (CSP) for Eri and Muga	Dr. A. K. Das
DESIGN	Preparation of DPR for setting up of KHADI HAAT at Guwahati	Prof. A. K. Das
DESIGN	Design Development of Bullet Proof Bunker and LED Dental light	Dr. A. K. Das



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DESIGN	Design and development of Kleensweep MK II (Hand operated floor cleaning equipment)- 1st phase	Dr. Avinash Shende
DESIGN	Design Development of Polyhouse for NE Region	Dr. A. K. Das
DESIGN	Designing wireframes for Lead module on Customer Relationship Management (CRM) software	Dr. Keyur Sorathia
DESIGN	Design of Logo for Rural Connectivity Buses	Dr. D. Uday Kumar
DESIGN	Certification of Dipbahan tricycle rickshaw and delivery van	Dr. A. K. Das
DESIGN	Value Addition in the Pomagranate Deseeder(Innovation of Mr. Udhav Bharali, Assam)	Dr. A. K. Das
DESIGN	Value Addition in the Kauna mat weaving machine Deseeder(Innovation of Mr. Y. Mangi Singh, Manipur)	Dr. A. K. Das
DESIGN	Value Addition in the Double Shuttle Loom (Innovation of Mr. Ngangom Nabakumar Singh, Manipur)	Dr. A. K. Das
DESIGN	Value Addition in Mechanised Loom (Innovation of Mr. S. Biren Singh, Manipur)	Dr. A. K. Das
DESIGN	Bamboo Tools for UNIDO	Dr. Avinash Shende
DESIGN	Wireframe design of false alarm management system application	Dr. K. Sorathia
DESIGN	Advice on Institute Identity Design for LGBRIMH	Dr. P. Yammiyavar
DESIGN	Bamboo Tools for UNIDO	Dr. A. Shende
DESIGN	Design aof Logo for for Indian Institute of Information Technology, SriCity	Dr. U. Kumar

ECE	Development of LANGMUIR Probe Biasing Unit and Probe I-V Data	Dr. H. B. Nemade
ECE	UWB based tank bottom imaging	Dr. A. K. Mishra
ECE	Analysis of Power Quality Problems	Dr. C.N.Bhende
ECE	Development of Fighter identification Algorithms	Dr. Dipankar Deb, Dept of EEE
ECE	Inspection of circuit diagram of RMU and VCB for the Airforce Borjhar	Dr. Praveen Kumar
EEE	Upgradation of 33 KV MRS at AF STN Kalaikunda	Dr. Praveen Kumar
EEE	Tezpur Air force Station RMU diagram	Dr. Praveen Kumar
EEE	Control System Design and Testing Methodology	Dr. Amit Sethi
EEE	Assam Power Generation Corporation Limited	Govinda Bol Shrestha

EEE	Electromedical and Speech Technology (EMST) Laboratory facilities	Dr. S. Dandapat
EEE	Privacy Preserving Face-biometric Retrieval - phase 1: Algorithm Development	Dr. K. Karthik
EEE	Losses in Induction Machines	Dr. P. Kumar
EEE	Review of course content of training themes for capacity building under R-APDRP	Dr. P. Tripathy

ENERGY	Analysis and fault diagnosis of 5HP diesel engine manufactured by Indra Marsahl	Dr. P. Mahanta
ENERGY	Preparation of Biogas based Power Project	Dr. P. Mahanta
ENERGY	Coal Testing	Dr. P. Mahanta
ENERGY	Testing and Certification of Solar Lantern System and Solar Panel	Ms. L. Barbora
ENERGY	Testing of Solar Home Lighting System to be supplied by various Company under Remote Village Electrification	Dr. P. Mahanta
ENERGY	Performance Evaluation of Stoves (Innovations of Mr. C. Senthil Kumar, Tamil Nadu; Mr. V. Jayaprakash, Kerala & Mr. Ashok Thakur, Bihar)	Dr. P. Mahanta

ENVIRONMEN	GIS-MIS Integrated Disaster Vulnerability information system	Dr. C. Mahanta
ENVIRONMEN	Eco-restoration and Conservation of the Bharalu River of Guwahati & Kalong River of Nagaon, Assam	Dr. C. Mahanta

HSS	Ecosystems for life	Dr. A. Barua
HSS	Survey for quantification of awareness level of school children on wildlife conservation in three focus areas of Greater Manas	Dr. A.. Barua

MECHANICAL	Testing of LRPC of size 12.7 mm	Dr. K. S. R. K. Murthy
MECHANICAL	Feasibility study for Implementation HTS generator in place of conventional generator in a hydro- electri power plant for generation modernization to increase efficiency	Dr. K. Kalita
MECHANICAL	Transient Analysis of Steam GerneratOR Model	Dr. M. Pandey
MECHANICAL	Technology Survey on Thermo Acoustic, Magnetic Absorption and Sterling Refrigeration Technologies	Dr. P. Muthukumar
MECHANICAL	Vibration analysis of conveyor belt gallery	Dr. R. Tiwari

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MECHANICAL	Metallurgical Analysis of Retired VDU Heater Tube Sample (2255)	Dr. P. S. Robi
MECHANICAL	Time and Motion Study for unloading of FCI RAKES AT Changsari Railway Station	Dr. U. S. Dixit
MECHANICAL	Pressure Tube Creep Correlation Development	Prof. P. S. Robi
MECHANICAL	Utility Examination of four Single Track Packing Machines and Technical Inputs for Installation and Operation	Dr. Sachin D. Kore
MECHANICAL	Manufacturing drawings and cost estimation of proposed equipment systems for mechanization of FCI Godown operations	Dr. S. N. Joshi
MECHANICAL	Performance Evaluation of the two Wheeler engine modified by innovator	Dr. P. Mahanta
MECHANICAL	Design developing a custom made remotely operable shot blasting machine with robotic arms for use in steeply inclined long penstocks	Dr. Sukhomay Pal
MECHANICAL	Design and Fabrication of a Pedal Operated Biomass Briquetting Machine	Dr. U.K. Saha
MECHANICAL	Tensile testing of samples from steel hollow tubular sections	Dr. K. S. R. K. Murthy
MECHANICAL	Root- cause Investigation & Rectification of an Industrial Fan Assembly Failure	Dr. R. Tiwary
MECHANICAL	Consultancy and Technical Design & Analysis of Tapered Roller Bearing	Dr. R. Tiwari
MECHANICAL	Determination of number of tracks or lines of the FFS (Form, Fill & Sealing) Packing Machine installed in the factory of Chewing Tobacco manufacturer	Dr. Sachin D. Kore
MECHANICAL	Determination of number of tracks or lines of the FFS (Form, Fill & Sealing) Packing Machine installed in the factory of Chewing Tobacco manufacturer	Dr. Sachin D. Kore
MECHANICAL	Verification of Air-Conditioning Load, Design and Selection of Air-Conditioning Equipments	Dr. P. Muthukumar

<b>Details of Patents applied and granted,</b>			
<b>By Department of Biotechnology</b>			
<b>Application No, Date, Year etc</b>	<b>Inventor(s)</b>	<b>Title of the invention</b>	<b>Result</b>
2005	Dr. Rakhi Charturvedi Dr. C. B. Vittala	Low cost and user friendly tissue culture bag or apparatus	Applied
2006	Biplab Bose, SubrataSinha, NobinKhanna Subrata Kr. Acharyee	A recombinant Mouse-HumanChimovic Fab against Hepatitis B surface antigen	Provisional grant
2011	Dr. LathaRangan	Multipurpose herbal utility of Camphene from Zinfiber Moran, an endemic medicine from North East India	Applied
2011	Dr. L. Rangan, Dr. Archana Das	Essential Oil Compositions of Zingiber Moran	Applied
2011	Dr. Latha Rangan	Medicinal Herbal composition from Rhizome essential oil of Zingiber Moran and the process thereof	Applied
2012	Mr. PrakashSaudagar, Dr. V. K. Dubey, Prof. A. K. Saikia and Mr. Pipas Saha,	"Oxabicyclo derivatives as novel antileishmanial compounds"	Applied
2013	Dr. LathaRangan Dr M SudipGhosh Dr. V K Dubey Dr. Anil Saikia Mr. Rajesh Kr Singh Mr. KiranIndukuri	Antileishmanialabdane type diterpene compounds from the seeds of Alpinianigra (Gaertn) B.L. Burtt, an athnomedically important plant from North Easr India	Applied
2014	Dr. Veeranki Venkata Dasu, Mr. Krishnamoorthy Hegde,	Enzymatic Esterification Process To Synthesise Isopropyl Ester Using Cutinase	Applied
2014	Dr. Veeranki Venkata Dasu, Mr. Krishnamoorthy Hegde	Enzymatic Esterification Process To Synthesise Terpenoid Esters Using Cutinase	Applied
2014	Dr. Biman Behari Mandal, Ms. Sween Gilotra,	Sericin/PVA electrospun mat as a prospective wound dressing material	Applied
2014	Dr. Vibin Ramakrishnan, Ms. Sajitha S, Dr. NitinChaudhary, Mr. GauravPandey	Generation and usage of Di-Histidine based stimulus responsive nanostructures	Applied
2014	Dr. BimanBehari Mandal, Mr. Surojit Das,	Injectable Silk Fibroin Hydrogel for Tissue Engineering and Drug Delivery	Applied
<b>By Department of Chemical Engineering</b>			
2006	Dr. Ramgopal Uppaluri Dr. MihirKt Purkait Mr. Bikkina P Kumar	Detergent composition for enhanced recovery of Cruid Oil from petroleum reservoirs	Applied
2012	Ms. Leela Manohar Aeshala and Dr. Anil Verma	"Solid electrolyte for direct and efficient electrochemical reduction of gaseous carbon dioxide into hydrocarbons in continuous process"	Applied
<b>By Department of Chemistry</b>			
2000	M K Chaudhury, Dr. U Bora, Prof. A T Khan, B K Patel	A process for the synthesis of organic halogenating compounds and compounds so prepared	Granted

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2002	M K Chaudhury, Dr. U Bora, B M Choudhury, S K Dehury, S S Dhar, M Lakshmi Kantan	Process for the preparation of metal acetylacetonate	Granted
2002	M.K. Chaudhuri, Dr. U. Bora, B.M. Choudhury, S.K. Dehury, M Lakshmi Kantam, J. Nath	Process for preparing pyridiniumfluorochromate (PFC)	Granted
2002	M.K. Chaudhuri, U. Bora, B.M. Choudhury, S.K. Dehury, D Dey, S S Dhar, W Kharmawphlang, M Lakshmi Kantam	An improved process for the preparation of quaternary ammonium tribromides	Granted
2004	Prof. Arun Chattopadhyay, Dr. Anumita Paul, Devasish Chowdhury	Colored nanolithography on glass and plastic substrates	Granted
2006	Prof. Arun Chattopadhyay, Dr. Anugrah Singh, Nagaraju Rao Pinjala	Evaporation Induced Lithography	Applied
2006	Iyer, P.K; Giri, P.K; Bhattacharya, S; Chetia, B	Method to synthesize nano sized zinc oxide	Applied
2006	Bazan, G.C; Heeger, A.J; Iyer, P.K; Liu, B	Methods and devices for utilizing soluble conjugated polymers,	Applied
2006	Kureshy, R. I; Mr.Khan, N. H; Mr.Abdi, S.H.R.; Dr.Iyer, P.K.; Mr. Patel, S.T.; Mr.Jasra, R. V. ,	A process for the preparation of novel chiral salen transition metal catalyst useful in enantioselective epoxidation of prochiral olefins,	Applied
2007	Prof. M K Chaudhury	A process for preparation of the isolable and storage stable tetrabutylammoniumtribromide (TBATB) from tetrabutylammonium bromide (TBAB)	Granted
2008	Dr. B. K. Patel	A clean process for the preparation of alkyl and aryl isothiocyanates	Applied
2008	Dr. B. K. Patel	An environmentally benign process for the preparation of carbodiimide	Applied
2008	Dr.P K Iyer Dr.P J Sarma Mr.G Saikia Mr.P Thapa	A process for the production of 9,9-dialkyl substituted fluorine monomer and obtaining the polyfluorine polymer (PFP) thereof	Applied
2008	Dr.Iyer, P.K.	Methods and Compositions to prepare 9,9-Dialkyl fluorine derivatives	Applied
2012	Dr. Bhubaneswar Mandal, Mr. Kishore Thalluri, Mr. Krishna Chaitanya Nadimpally Mr. Ashim Paul,	"Coupling Reagent for Esterification, Thioesterification, Amidation and Peptide Synthesis"	Applied

2014	Dr. Bhubaneswar Mandal, Mr. DharamDev, Mr.Nani Babu Palakurthy	Environment Friendly And Efficient Peptide Coupling Reagent	Applied
<b>By Department of Design</b>			
2011	Dr. Ms. Nandita Bhattacharyya, Dr. Debkumar Chakrabarti	Plucking aid for tea pluckers in tea industry	Applied
2012	Mr. Nitish Kumar Meena and Mr. Sorathia Keyur	Today I Like	Applied
<b>By Department of EEE</b>			
2008	Dr,Majhi. S,	Relay and Adaptive Filter Based on –Line Tuning of PIPD Controller	Applied
2013	Dr. GauravTrivedi Dr. Mahesh B Patil Dr. SachinB Patkan Mr. Save YogeshDilip	Application of Modified Two-graph Method based Circuit Simulator to evaluate performance of Solar Cell arrays in various Geometries	Applied
<b>By Department of Mechanical Engineering</b>			
2008	Dr. S C Mishra Mr. P. Acharyee Dr. P Muthukumar Dr. P. Mahanta	Efficiency enhancer for a pressurised kerosene stove	Applied
2008	Prof.Mahanta, P. K; Prof.Kakati. S	Porous medium inserts for performance enhancement of BIS pressurized kerosene stove	Applied
2010	Dr. S. C. Mishra	Porous Radiant Burner for Domestic LPG Cooking Stove	Applied
2010	Dr. VinayakKulkarni,	Internal Combustion Engine based on crank – rocker mechanism with variable compression ration	Applied
2011	Dr. S. Kanagaraj	Performance enhancement of conventional Kerosene stoves using Nanofuel	Applied
2011	Dr. PinakeswarMahanta, Mr. Arjit Biswas	Improved Process for the production of Bamboo Charcoal and Bamboo Vinegar	Applied
2011	Mr. PriyankJagdishBhardwaj, Dr. Ashis Kumar Sen,	Microfluidic hydrocyclone for solid-liquid separation	Applied
2014	Dr. S. Kanagaraj, Mr. S. Arun,	Injection Mouldable Polymeric Composite Based Passive Polycentric Knee Joint	Applied
2014	Prof. S. C. Mishra, Dr. P. Muthukumar, Mr. Niraj Kumar Mishra,	Self-Aspirate LPG Domestic Cooking Stove with a Two-Layer Porous Radiant Burner	Granted

2014	Dr. S. Kanagaraj, Mr.S. Arun and Mr. Mrutyunjay Maharana	Design and Development of a Trans-Femoral Amputee walking simulator	Applied
<b>Department of Physics</b>			
2010	Dr. Bosanta Ranjan Boruah	A technique to enhance lateral resolution in cofocal microscopy	Applied
2010	Dr. Bosanta Ranjan Boruah	An optical wavefront sensor for spatially coherent beams	Applied
<b>Centre for Energy</b>			
2012	Ms. Dipti Yadav, Ms. LepakshiBarbora Prof. P. Mahanta,	Detoxification of <i>Jatropha</i> deoiled seeds for probable application	Applied

# **A Pilot Project on Ishān Vikās and Udaan**

*The Pilot aims to*

- *Introduce Schoolchildren from the North-Eastern States to the Best Institutions of Higher Education in India to encourage them to take Science, Technology, Engineering and Mathematics courses, and to*
- *Arrange Internship for the Engineering College Students of North-Eastern States in various Institutes of National Importance. Together with*
- *Mentoring Girl Students to Compete for Admission at Premier Engineering Colleges*
- *Get to understand why students can/ can't perform from the three perspectives of curriculum design, curriculum transaction and curriculum assessment*
- *Feedback the understanding for curriculum reforms and teacher training programs*

## **Background Note**

*Ishān Vikās* is proposed as a comprehensive plan to bring selected schoolchildren – girls and boys – from the North-Eastern states into close contact with the IITs and IISERs during their vacation periods. A typical visit is envisaged for a period of seven days (excluding journey time) to one of these institutions. An Internship programme for the Engineering College Students of North-Eastern states in various IITs and NITs is also proposed under the umbrella of this programme.

Udaan is a programme for mentoring selected girl students enabling them to compete for admission at Premier Engineering Colleges. The selection of students is on the basis of merit cum means. The 50 % seats are earmarked for the students from SC/ ST/ Backward Classes. Thus, through this programme, the girl students are expected to get a wider perspective on how they can take a much more proactive role in shaping their own future.

A Project Report was presented earlier outlining an overall plan to steer these programmes in a systematic and effective manner. The present report is focused on the implementation plan for a Pilot Project.



## **1. Visiting Programmes for School Children from the North-Eastern States to the Best Institutions of Higher Learning in India**

### **1.1 Introduction**

Schoolchildren from the North-Eastern (N-E) states will be naturally motivated to acquire higher skills if they get a chance to visit the campus of a premier institute, to walk inside the hostels, sit in the classes, talk to students and meet the Research scholars (Ph.D. students) working in the laboratories. The brochures and websites of IITs and IISERs, while informative enough for prospective students, are inadequate for anyone to fully grasp the reality of these Institutes. It is important to be there in person, to partake of the ebullient intellectual ambience and to be able to visit the places that were once frequented by the likes of brilliant minds like Prof. Subra Suresh, Prof. Ashoke Sen or Prof. Rajesh Gopakumar and the libraries where scholars of the calibre of Prof. Shiraz Minwalla, Dr. Shailesh Mehta or Dr. Raghuram Rajan have studied.

Summer and winter breaks would be an ideal time to organize visits to the IITs, NIAS and IISERs, because the school students would not miss valuable class time. Unlike traditional tours, visits under the *Ishān Vikās* scheme will thrust participants fully into campus life – they will live in hostels and dine in-mess with their hosts, engage in social events and get the opportunity to visit a number of state-of-the-art laboratories.

An extra treat for participants could be lectures by some eminent faculty members or famous personalities in the neighborhood. Abridged versions of *Jeevan Vidya Shivir* or *Art of Living* may also be conducted to guide these students towards a more fulfilling life.

A Pilot Project is being proposed in this document with an aim to demonstrate the success of the concept. The Pilot is envisaged to fine-tune the strategies towards smooth execution of the main project.

### **1.1 Composition of the Visiting Students:**

1. We can start the program keeping 7 IITs and NIAS in mind. Each Institute will be host of one group during the month of December 2014. Each visiting group will consist of 6 students. Thus 48 school students will participate in the pilot project this year.
2. Each visiting batch will have an equitable distribution of Class IX students and Class XI.
3. Each group of 6 can be formed by taking 6 students from one single school in each of the eight N-E states.
4. In the pilot, each host institute will cover one school. Thus, 8 N-E schools will be covered (1 school from each N-E state). For the Pilot, students from KVs, JNVs, and CBSE affiliated State Government schools in Arunachal Pradesh and Sikkim will be taken.
5. Each school will send one teacher to accompany the students of that school.
6. The organizers have to contact 8 schools to start with. **This activity can be accomplished by the CBSE.**
7. The CBSE may also take up the responsibility to pick the students based on school results. The selectors will be suggested to pick up a few typically top students and a few students with above-average performance.
8. Amongst the 8 groups of 6 students, preference can be given to the girl students who are already selected for Udaan from the NE region. **This also means that all the participating students of Class XI may be chosen from the girl students that are qualified from the NE region for the Udaan programme.**

**1.2 Travel and accommodation:**

1. Air-tickets as well local travel to the nearest airport should be provided to all visiting students as railway connection is not good in most N-E states. It will also reduce total number of days. And safety issues can also be handled better.
2. Food and accommodation will be arranged in the IIT/ NIAS Boys' and Girls' hotels for the students.
3. Each host Institute will identify a faculty coordinator. In addition, interested faculty members (specifically who are from the N-E states) in the host Institutes can be requested for coordination.
4. IIT Guwahati and CBSE will take care of overall Coordination. This will require a dedicated units in both the organizations.

**1.3 Activities to be covered:**

Activities envisaged in the programme will cover the following aspects:

1. The meeting itself will explain the purpose of the visit. Students and teachers will introduce themselves.
2. *Introduction to Science and Engineering:* Sessions of (45 min + 45 min). The first 30/ 45 minutes will be for giving broad overview of the various disciplines in science and engineering, highlighting the milestones and the current status, in non-technical terms as much as possible. The second half will be informal, interactive, encouraging the students to ask questions.
3. *Laboratory:* Each introductory session will be followed by a lab-session where the visiting students will be shown the lab/ equipments of the concerned discipline

4. *Programming*: Each day, instruction will be given so that by the end of some sessions students are able to write a simple program/ algorithm (even if it is extremely basic) themselves on their own.
5. *Career*: Two sessions of (1 hour each), one for academic and the other for non-academic career. Info concerning available scholarships, govt. schemes, and exchange schemes, admission process of different institutes-India and abroad, etc can be taken up.
6. *Communication skills*: One session or two will be held within the first two days to emphasize oral and written communication skills and tips will be given.
7. *Video shows*: 6 video shows can be held where 3 will be on remarkable achievements (including at least one by Indian) in science and 3 will be on the life of three great scientists. These shows will be followed by informal discussions.
8. *Personality development*: Competent resource persons will emphasize the need for consciously developing the traits and habits that enhances personality.
9. *Learning techniques*: There will be session on how students can try out different learning strategies. Different approaches for better understanding each subject of the basic sciences can be highlighted.
10. *Reading*: The students will be given a collection of books to be taken back with them. An informal session can be there to impress upon them why those books should be read with a brief introduction.
11. *Teaching techniques*: There will be a session for the accompanying teachers on different methods of teaching that can be tried out in their respective schools.
12. *Other activities*: Some of the other activities envisaged are as follows.
  - (a) Students will be engaged in outdoor activities including sports and organized walks around the campus in the initial two days so that

they can overcome their inhibitions. Other alternative will be to conduct a short programme on *Jeevan Vidya Shivir* or *Art of Living*.

- (b) Students will be taken to museums/ monuments so that they also get a chance to know the place.
- (c) Students should get a chance to appreciate the traditional culture of the place through music/ dance shows.

A tentative time-table for these activities is given in **Annexure :A**

The students can be provided with some selected reading material which they can take back with them after the visit. They are often not aware of books on discoveries in science and technology, which are truly inspiring. A possible list of such books is given at the end of this write-up as **Annexure: B**

#### **1.4 Input for School Curricular Reforms**

During their close interaction with the faculty members, the students will also be observed for their learning style and its effect on their learning outcomes. This will also give an opportunity to understand the gaps, if any, in the school curriculum, pedagogy or assessment, especially w.r.t. sciences and mathematics. This diagnostic gap analysis can form the basis of future reform in secondary school sector. The gap analysis will also be a valuable input for designing teacher training programmes, as well as Teaching, Learning Material for Udaan.

As a continuation of this exercise, once an understanding is developed between the host IIT and a school as a result of student visit, the same IIT will interact with the guest school further to understand why students learn/ don't learn at the primary level. This will provide rich ground level input for policy formulation. The exercise can be easily done with the help of willing, retired professors/ teachers/ other resource persons. The group may be called "Education Resource Cell" (ERC) of the MHRD.

### **1.5 Cost of the project for the School Children:**

The students are to be sent to **8** premier institutes (7 IITs and NIAS). Each group will stay in the above-mentioned Institutes for seven days during the coming winter. Each group will consist of **6** students.

Each visiting batch will have an equitable distribution of Class IX students and Class XI. The students of Class XI are to be preferably chosen from the selected students for the Udaan.

Each group of **6** can be formed by taking **6** students from one single school in each of the eight N-E states.

Each school will send one teacher to accompany the students of that school.

Which means every group will consist of **6** students and **1** teacher. Therefore together with **48** students, **8** teachers from N-E will be visiting the Premier Institutes. The total number of participants from the schools for the pilot is 56. A tentative budget for travel is proposed in **Annexure: C**

### **1.6 Responsibilities**

1. Overall coordination- IIT/ Guwahati
2. Student and School Selection by 7.11.2014- CBSE
3. Transport and logistics- IIT/ Guwahati, other institutes, and CBSE
4. Identification of Resource Persons and finalizing the program by 21.10.2014 - All IITs and NIAS
5. Arrangements for stay of students and teachers by 2<sup>nd</sup> week of December- All IITs and NIAS
6. Nomination of Faculty Coordinators by 14.10.2014- All IITs, NIAS, and CBSE
7. Finances-
  - a. For logistics (travel) upto IITs, NIAS by CBSE
  - b. Local hospitality and other local expenditures by respective IITs, NIAS

## **2. Pre-Internship Programmes for Students of Engineering Colleges in the North-East**

### **2.1 Introduction**

The first undergraduate college in the N-E region was established in Guwahati in 1901. It became famous as Cotton College and earned respect amongst its peers. On October 16, 1992, the college was declared as a Center of Excellence. After a century of providing high quality education it has been decided to transform the College into a University. Nevertheless, the development of higher education in Assam (and other states of the N-E region) was relatively slow. The Gauhati University was established in 1948 with 17 associated colleges. The number of affiliated colleges grew slowly (today it is 129). The technical and professional educations also grew at a very slow pace. Then, in the India of the 1980's and 1990's the demand for higher education in professional and technical areas registered a sharp increase and prompted an enormous growth of privately-funded institutions, especially in some industrially-advanced states (Maharashtra, Andhra Pradesh, Tamil Nadu, Karnataka, etc.). A small part of this growth percolated to the North-East as well. During the last two decades a few Universities, Engineering Colleges and Management Institutes have come up in the state of Assam. Other states of N-E states have been able to get Government-funded Institutes.

At present, the N-E States have the following State and Centrally Funded Engineering Institutes:

<b>Assam:</b>	Assam Engineering College, Guwahati Jorhat Engineering College Gauhati University Institute of Science and Technology (GUIST), Guwahati IIIT Guwahati Dibrugarh University Institute of Engineering and Technology (DUIET), Dibrugarh Jorhat Institute of Science and Technology (JIST), Jorhat Bineswar Brahma Engineering College, Kokrajhar NIT Silchar, Silchar School of Engineering, Tezpur University Triguna Sen School of Technology, Assam University CIT Kokrajhar, Kokrajhar
<b>Manipur:</b>	Manipur Institute of Technology, Imphal NIT Manipur IIIT Manipur
<b>Nagaland:</b>	NIT Nagaland School of Engineering and Technology, Nagaland University
<b>Tripura:</b>	Tripura Institute of Technology, Agartala NIT Agaralata
<b>Arunachal:</b>	N-ERIST, Itanagar NIT Arunachal Pradesh
<b>Meghalaya:</b>	NIT, Meghalaya School of Technology, N-EHU, Shillong
<b>Mizoram:</b>	School of Engineering and Technology, Mizoram University NIT Mizoram
<b>Sikkim:</b>	NIT Sikkim

In culmination, the Indian Institute of Technology (IIT) Guwahati was founded in the year 1994, and has just completed two decades of its existence. In May 2014, this IIT was ranked 87th among 800 institutions across the world which were set up in the last 50 years, by the prestigious London-based **Times Higher Education** magazine.

## **2.2 Implementation of a Pilot Project**

Altogether there are 25 Government Funded (State as well as Central) Technical Institutions in the N-E states as listed (leaving IIT Guwahati). Pre-final year students from different disciplines from **8** of these Institutions could be placed in different IITs and NIAS for their pre-Internship visit. Each of the following **7** IITs and NIAS which have full-fledged departments and academic centres may consider imparting pre-Internship training to **6** pre-final year students from **8** technical Institutions of N-E states totaling 48



Interns. Each mentee Institute will send one bright young faculty member with the visiting students. The accompanying faculty member (non-PhD) will also harness the possibility of pursuing PhD in these Institutes in future.

Each visiting student will be assigned a volunteering Faculty member from the IITs and NIAS. The visiting students will spend 7 days and study a well defined research problem under the mentorship, guidance and supervision of the faculty members in various Departments during their stay and take back with them enriching experience. From **8** Institutions, **48** students will be visiting 7 IITs and NIAS.

<b>Sl No.</b>	<b>IITs/ NIAS</b>	<b>No. of Interns</b>
1.	IIT Bombay	06
2.	IIT Delhi	06
3.	IIT Guwahati	06
4.	IIT Kanpur	06
5.	IIT Kharagpur	06
6.	IIT Madras	06
7.	IIT Roorkee	06
8.	NIAS Bangalore	06
<b>Total</b>		<b>48</b>

IIT Guwahati will take up the responsibility of choosing these **48** students. Therefore, it is possible to accommodate 48 Interns from 8 N-E states. Each visiting team will comprise of one young faculty member Therefore, a total of **56** visitors from N-E states will take part in the pilot project for the college students.

The Estimated Budget for the Internship of the Engineering College students of N-E states is given on **Annexure D**

**Annexure A: Tentative Timetable**

	9:30-10:30	10:30-11:30	11:30-12:30	14:30-15:30	15:30-16:30	16:30-17:30	Evening
<b>Day 1</b>	Welcome, State the Purpose, Introduction		Communication Skills session	Expert talk on Math with QA session	Visit to Math Dept	Intro: Comp. Internet etc.	Organized walk around campus
<b>Day 2</b>	Expert talk on Physics with interactive QA-session, visit to Physics labs			Learning techniques: modern ideas	Personality development: need and efforts	Intro: Comp. Internet etc.	Video show on important discovery (Math)
<b>Day 3</b>	Expert talk on Chemistry with interactive QA-session, visit to Chemistry labs			Approaches to different routes of sciences (for better understanding)	Simple Comp. programming		Video show on important discovery (Physics)
<b>Day 4</b>	Expert talk on Biology with interactive QA-session, visit to Biology labs			Career options: academic, scholarships, admission process in institutes, non-academic options	Simple Comp. programming		Outdoor activity (sports)
<b>Day 5</b>	Expert talk on Engineering with interactive QA-session, visit to some Engineerings labs			Computer programming	Seminar talk by an eminent scholar in Humanities		Video show on important discovery (Chem)
<b>Day 6</b>	Jeevan Vidya Shivir/ Art of Living/ Social Interaction			Jeevan Vidya Shivir/ Art of Living/ Social Interaction			
<b>Day 7</b>	Concluding session: tips for continuation			Visit to local places of touristic interest			

## **Annexure B: Reading Material**

A list of books to be given as reading material after the visit is given below.

<b>Sl.No.</b>	<b>Title</b>	<b>Author</b>
1.	Chaos	James Gleick
2.	A Short History Of Nearly Everything	Bill Bryson
3.	Surely You're Joking, Mr. Feynman!	Richard P. Feynman
4.	Big Bang	Simon Singh
5.	The Human Zoo	Desmond Morris
6.	Black Holes And Baby Universes	Stephen Hawking
7.	Mad Science	Reto U. Schneider
8.	DNA: The Secret Of Life	James D. Watson
9.	Phantoms In The Brain	V.S. Ramachandran & Sandra Blakeslee
10.	The Character Of Physical Law	Richard P. Feynman
11.	Impossibility	John D. Barrow
12.	The Double Helix	James D. Watson
13.	In Search Of Schrodinger's Cat	John Gribbin
14.	The God Delusion	Richard Dawkins
15.	The Universe In A Nutshell	Stephen Hawking
16.	Spherical Models	Magnus J. Wenninger
17.	The Naked Ape	Desmond Morris
18.	Guns, Germs And Steel	Jared Diamond
19.	$E=Mc^2$ : A Bio. of the World's Most Famous Equation	David Bodanis
20.	What Is Mathematics	Richard Courant & Herbert Robbins
21.	The World Of Mathematics (Vol 1)	James Newman
22.	The World Of Mathematics (Vol 3)	James Newman
23.	The World Of Mathematics (Vol 4)	James Newman
24.	Why Does $E=Mc^2$ ?	Brian Cox & Jeff Forshaw
25.	The Scientific Indian	A.P.J. Abdul Kalam & Y.S. Rajan
26.	Relativity – The Special And General Theory	Albert Einstein
27.	The Eerie Silence: Are We Alone In The Universe?	Paul Davies
28.	Instant Notes In Chemistry For Biologists	J. Fisher & J.R.P. Arnold
29.	Men Of Mathematics	E.T. Bell

30.	The Man Who Knew Infinity	Robert Kanigel
31.	Wings Of Fire	A.P.J. Abdul Kalam & Arun Tiwari
32.	Lilavati's Daughters: The Women Scientists Of India	Rohini Godbole & Ram Ramaswamy
33.	The Emerging Mind	Dr. Vilayanur S. Ramachandran
34.	Beyond Einstein	Michio Kaku & Jennifer Thompson
35.	Qed: The Strange Theory Of Light And Matter	Richard P. Feynman
36.	The Origin Of Species	Charles Darwin
37.	What Is Mathematics?	Richard Courant & Herbert Robbins
38.	Stephen Hawking: Quest For A Theory Of Everything	Kitty Ferguson
39.	Does God Play Dice? The New Mathematics of Chaos	Ian Stewart
40.	Antimatter	Frank Close
41.	The Selfish Gene	Richard Dawkins
42.	The Last Theoram	Arthur C. Clarke & Frederik Pohl
43.	Prof. Stewart's Cabinet Of Mathematical Curiosities	Ian Stewart
44.	Genius: Richard Feynman And Modern Physics	JAMES GLEICK
45.	The Greatest Show On Earth: Evidence For Evolution	Richard Dawkins
46.	S. Chandrasekhar: Man Of Science	Radhika Ramnath
47.	The Information: A History, A Theory, A Flood	James Gleick
48.	Poincare's Prize	George G. Szpiro
49.	The Edge Of Reason	Anil Ananthaswamy
50.	Genome	Matt Ridley
51.	What Do You Care What Other People Think?	Richard P. Feynman
52.	Hyperspace	Michio Kaku
53.	George's Secret Key To The Universe	Lucy & Stephen Hawking
54.	Dr Riemann's Zeros	Karl Sabbagh
55.	Stephen Hawking- A Life In Science	Michael White & John Gribbin
56.	Electric Universe	David Bodanis
57.	Fermat's Last Theoram	Simon Singh
58.	Bose And His Statistics	G Venkataraman
59.	Simple Experiments Of A Great Scientist	National Council Of Science Museums

**Annexure C: Estimated Budget for the visit of School Students**

We can start the program keeping **8** premier institutes (7 IITs and NIAS) in mind. One group will consists of **6** students. The Pilot will cover **48** students and **8** teachers. Each school will send one teacher to accompany the students of that school.

Estimated travel costs per annum are as follows.

	<b>Institution</b>	<b>Rs. (lakhs)</b>
1.	IIT Bombay	1.8
2.	IIT Delhi	1.8
3.	IIT Guwahati	1.4
4.	IIT Kanpur	2.0
5.	IIT Kharagpur	2.0
6.	IIT Madras	1.8
7.	IIT Roorkee	2.0
8.	NIAS Bangalore	1.8
	<b>Total</b>	<b>14.6</b>

**The travel costs (for the School Students) from the home-town to IITs/ NIAS and return are to be borne by CBSE**

**Local hospitality and other local expenditures are to borne by respective IITs, and NIAS**

**Annexure D Budget for the visit of College Students**

It is proposed that each of these 48 college students 8 young faculty members may be provided with train fare (from parent Institute to the Institute where students will undergo pre-Internship)

To-fro travel for 56 participants: Rs.3.50 lakhs

The travel costs (for the College Students) from the home-town to IITs/ NIAS and return are to be borne by AICTE  
Local hospitality and other local expenditures are to borne by respective IITs, and NIAS



## **Implementation Strategies pertaining to the Suggestions of Hon'ble Prime Minister at the Visitor's Conference**

**Gautam Biswas**  
**Indian Institute of Technology Guwahati**

During the Visitor's Conference at Rashtrapati Bhavan, Hon'ble Prime Minister of India suggested the IITs to focus on the following issues: (i) Involvement of Alumni in the Development Activities of IITs (ii) Early Introduction to Research in the Areas of National Need (iii) Adopting a Local Village (under Unnat Bharat Abhijan), (iv) Adopting Local Colleges (v) Intense involvement of IITs in R&D activities especially in Defense, Affordable Health Care, Affordable Housing, Railways and Electronic Hardware.

The following are the implementation strategies of IIT Guwhati on the issues espoused by the Hon'ble Prime Minister

### **1. Involvement of Alumni**

For Universities/ Institutes everywhere Alumni are the source of strength. Endowment funds are the prime movers in all great Institutes across the globe today. Universities and Institutes are free to do any constructive work if they have their own Alumni funds. This is indeed a formal second channel to improve the quality of life in the Academic Institutes/ Universities. We have to understand the art of fund raising and fund utilizing. There are ways and means of formalizing this channel of collecting and creating funds. The gift can be of any denomination, ranging from a hundred rupees to a hundred thousand rupees. Every donor is held in high esteem. The resource-generation strategy should be integrated with the Global Alumni activities. A roadmap for utilizing capabilities of the Alumni has to evolve. Here is a tentative list of activities that can be initiated from the Corpus funds:

- Creating Endowment Chairs to attract well-known scientists from all over the world;
- Book grants and Contingency for the Masters and Ph.D. students;
- Support to the Master's and Ph.D. students for attending International Conferences;
- Creating Guest Houses for the community activities;
- Enhancing the Library and Computational facilities;



- Creating Museums/ Buildings in honour of the great personalities, especially Indians;
- Providing PC and seed money to new faculty members so that they can independently start their research;
- Improving the facilities in the hostels in order to offer a better life to the students.

Backed by a tradition of generosity and pride in their *alma mater*, IIT Guwahati Alumni have shown a strong desire to increase their participation in IIT-related matters. Ongoing annual support by regular donors will indubitably strengthen our ability to create and sustain innovative academic programs, launch outreach initiatives that improve the community, provide educational opportunities for deserving students, and perform ground-breaking research. Therefore, IIT Guwahati plans to involve Alumni to mentor faculty and students in various matters. Some are listed here:

- Invite prominent Alumni to address freshers at the beginning of every new academic session to implant the “*Alma Mater*” concept at an early stage;
- Expand the Mentorship program to connect each student with at least one alumnus who has done well after leaving IIT Guwahati;
- Involve Alumni from academia to interact with the young faculty;
- Extend the Alumni seminar program to invite eminent personalities in all areas of arts, sports, corporate leadership, etc. to visit IIT.

IITG’s focus remains clear – to provide our students with a transformative educational experience. The continued support of Alumni will be a major plank in ensuring that opportunities remain endless for IIT students, today, tomorrow and at all times thereafter.

## **2. Early Introduction to Research**

Undergraduate students can be assigned challenging research projects at an early stage so that they can complete the work by the time they graduate. As a result some projects may culminate into complete product. The following are typical examples of the research projects:

- *Manufacturing Suspension System of a Vehicle to be used in Rough Terrain*

This project may be taken up by the students who want to learn the practical skills in Mechanical Engineering that they do not usually learn in class. The first task would be to design using appropriate CAD software. The project involves work on the design and manufacturing parts of the suspension system of a Vehicle to be used in rough terrain. Somebody may be engaged to design attachment tabs for the front suspension. These tabs would be deployed to connect the suspension to a frame for testing. Every week, the students can be expected to finalize the design related to a sub-component of the suspension system so that these can be manufactured and assembled by the eighth semester. This research and hands-on experience will enable student(s) to know how to calculate the forces that the components of a suspension experience when braking and taking sharp turns. These forces have to be accounted for in choosing the geometry and material for the suspension components.

- *Contact Printing of Quantum-dot Photovoltaics*

One project may be offered to investigate the viability of a contact-printing method for creating arrays of quantum-dot photovoltaic devices. By defining features with a resolution of less than 100 nanometers (approximately) on the order of the exciton-diffusion length, higher solar power conversion efficiency can be achieved. These efficient devices could be patterned in thin (*PDMS*) films on many different surfaces.

- *Bio-inspired Micro-aerial Vehicles*

Think of a dragonfly. Much like those masters of flight, small but highly manoeuvrable aircraft that can stop on a coin and change direction hold great promise for aviation and aerospace exploration for surveillance. The flow Physics of unsteady flows – for example, air around a flapping wing has to be thoroughly understood. The project includes modelling aerodynamics of agile bio-inspired micro air vehicles, as well as fluid flows around flexible structures (like the water around an undulating fish). In order to achieve the remarkable abilities of the airborne and aquatic creatures, developing novel tools to distill and model the essential mechanics of locomotion, is absolutely needed. The engineered vehicles and systems are expected to be more robust and agile or extract more

energy from their environment and carry out surveillance related activities.

- *Paper-and-Pencil based Diagnostics Sensors*

The electrical control of liquid flow in the paper-and-pencil device can be implemented for significantly improving the present modality of immunochromatographic assays (simple devices intended to detect the presence of a target analyte in a sample, say blood). The existence of electrokinetic phenomenon on paper substrates can be exploited for performing various processes, e.g. manipulation/ trapping of electrically responsive biomolecules, electrical separation/ mixing of analytes, and microscale liquid (for example blood sample) handling. Furthermore, the proposed electrical forcing mechanism is very simple, requiring no additional actuation devices, and hence can be easily integrated even with intricate microfluidic networks on paper substrates in order to develop diagnostics sensors.

- *Amplifier Design for Active Piezoelectric MEMS Resonators*

Micromechanical resonators have been proved to be advantageous over traditional inductor-capacitor circuit (LC tanks) and quartz crystals due to their small size and weight, low power consumption and high Quality factor. Piezoelectric materials have been widely studied to provide the drive and sense mechanism in resonators. Under the scope of this project, a group can attempt integrating an active sensing element such as a transistor onto a piezoelectric resonator to reduce the input to output throughput.

### **3. Adopting a Local Village**

If the IIT system has to contribute something back to the society or *local* communities, each IIT can consider adopting a neighbouring village for some specific duration and assist in developing this village as a model community. The basic idea is promote new innovative schemes to facilitate positive impact among rural and downtrodden communities. IITs have some natural strengths in kick-starting such a scheme, since every IIT is not only a multifarious knowledge bank but is home to a large body of men and women who have

chosen a life of academics and social service instead of pure commercial success. Obviously, this scheme is not intended to change the village in question to a big city. Instead, IITs will work for a solution to the pressing problems of the village community. IITs will advocate youngsters-driven change in the villages, where IITs will put in effort to address the issues of generating potable water, banishing open defecation and improving waste management practices. IITs can bring about a sea-change in these areas by making the villagers aware of (a) the dangers of unsanitary practices, and (b) the practicality of simple ways of removing them in favour of more hygienic methods. Other ways that IIT can help the village community is to guide them in rain-water harvesting, scientific farming methods, and healthy practices for husbanding animal resources. Eventually, voluntary service from the entire IIT community, including students, staff and spouses, could be marshalled to ensure education for every child in the adopted village.

The projects must address all three essentials of life: Health, Hunger and Education. Keeping this in mind, *some of the key interventions in this plan are listed below.*

- Establishing an evening learning centre for adults, especially women;
- Implementing project activities of safe sanitation, personal hygiene and drinking water practices among children, women and adults;
- Stopping open defecation by effective and innovative behaviour-modification techniques;
- Formation of a Water and Sanitation Committee and provide training for its members, as well as for children and women;
- Promoting small gardens as part of waste water management;
- Establishing solid and liquid waste management systems;
- Increasing water conservation and purification methods in villages including rain water harvesting;
- Introducing schools for the children.
- Providing Clean Water and Mosquito Nets to eradicate malaria and other mosquito-related diseases;
- Introducing Food Production methods and/ or Education that are designed to meet the needs of that village.

After the first project is completed, follow-on projects can be undertaken in that village to further improve the quality of life and the chances of totally eliminating poverty for that village. In the long run, this village could then become a model for other villages to develop on the same lines.

We now come to specifics: IIT Guwahati plans to adopt a village known as *Rajaduar*. This village has an ancient history and could be, in addition to a model village, a place of considerable tourist interest. The entire village maintains remarkable cleanliness. The sense of hygiene is very high amongst the community. The scenic beauty of the village is unforgettable. Majestic Brahmaputra gives an elegant look to entire ambience. Here is some background information about the historical importance of this village.

North Guwahati, which lies on the north bank of the river Brahmaputra and is also known as *Durjaya*, was the capital of the ancient state of *Kamarupa* under the imperial *Pala dynasty*. In early-medieval times this area was known as *Kamarupa Nagara*. North Guwahati possesses several temples, roads, bridges, fortifications and moats of ancient origin. There are two temples on the *Aswaktanta* hill. The upper temple contains a recumbent image of *Lord Vishnu* in the pose of *Ananta-Shayya*. It is one of the finest specimens of sculptural skill in *Kamarupa* and dates to about the beginning of the twelfth century. The western part of the town is called *Sil-Sako* because it still contains a small stone-built bridge over a stream. The eastern part is known as *Rajaduar* (King's Gate), which shows that the King's palace was there. The second copper-plate inscription of the emperor *Dharmapala* was found in the village of *Rangmahal* about two miles to the north of *Rajaduar*. This is another indication that the provincial capital was then at North-Guwahati. In *Rajaduar* itself exists a rock-inscription, dated 1127 of the *Saka* era (1245 CE), proclaiming the destruction of the 'Turkish' army of one *Muhammad Bukhtiyar*, who is easy to identify as *Ikhtiyar-ud-din Muhammad bin Bakhtiyar Khilji*, the 12th century conqueror of Bengal and Bihar. This indicates that the armies of this general, after their runaway successes further south, were unable to effect a conquest in Assam.

North Guwahati continued to be the capital from the time of *Dharmapala* till about 1260 A.D. when the seat of government was transferred further west. From a stone-slab inscription found on the hill in *Rajaduar*, abutting on the Brahmaputra, it is known that this small hill was the abode of *Sri Chandra Bharati*, a well-known *Kamarupa* poet of the 16th century. Currently, however,

*Rajaduar* is a small and undistinguished village with poor levels of facilities and income. IIT Guwahati aims at starting evening schools for better training of the schools kids. The children from this village should be empowered (through teaching by the NSS volunteers from IIT Guwahati) so that a good number of children get admission in IITs. Every adult must have an account in Bank. Some Industries have started coming to North Guwahati. The conditions are to be ensured to preserve the environment. IIT Guwahati can be instrumental in setting up Small- scale Industries and generate employments.

The Design Department of IIT Guwahati is deeply interested in converting *Rajaduar* into a heritage site. *Doul Govinda Temple* is situated on the foot hills of *Chandra Bharati* hill at *Rajaduar*. The temple is devoted to *Lord Krishna*. Several stories exist regarding this deity and how *Lord* was brought here by late Sri Ganga Ram Barooah from a place called *Sandhyasar* near Nalbari. The *Doul Govinda Temple* is very well known for the Holi (festival of color) celebrations in the month of February - March. *Rajaduar* is a village where the IIT volunteers need to focus on restoration of heritage sites, preserving exquisite temple architecture and encourage the growth of appreciation for Assamese literature and culture among the youth.

IIT Guwahati desires to help another nearby village, known as *Kating Pahar*. *Kating Pahar* is a small village, surrounded by hills in the mighty Brahmaputra valley. The village houses the displaced people of mixed background – Assamese, Bengali, Bodo and Nepalese. The village does not have proper road communication nor does it have electricity in the dwelling places. Building toilets for every dwelling unit, providing solar lamps, and teaching various avenues of livelihood generation for the villagers are the immediate tasks. The people are mostly labourers who go to work in the nearby areas. IIT Guwahati plans to move through Government agencies for establishing solid and liquid waste management systems; providing Clean Drinking Water and Mosquito Nets to eradicate malaria and other mosquito-related diseases and improving the existing schools for the children.

#### **4. Adopting Neighboring Colleges**

Premier academic institutions like Indian Institutes of Technology have, over the years, evolved excellent methodology for teaching and learning, research environment and a culture of transparency comparable to the best institutions in

the world. A large number of institutions in the country have potential to grow as centres of excellence, if initial guidance and support are provided. It is therefore, proposed to initiate a process of linking these institutions so that a significant number of high quality institutions emerge. As a result the academic standard in the country will tend towards uniformity.

The major focus of this initiative is on person-to-person contact so that the excellent research culture of premier institutions can be transferred to other institutions.

For greater impact there shall be a regional focus. Clusters are to be formed centred around each IIT and the technological institutions in the neighbourhood of a given IIT (Mentee Institutes). The IITs can be termed as the Resource Institutions (RI) and other technological institutions may be termed as the Partner Institutions (PI). Each of the Resource Institution will have collaboration with 4-5 participating institutions in the region.

*Proposed specific activities under this scheme are the following.*

- *Faculty Mentors*

Faculty Mentors are expected to be senior faculty from the Resource Institutions (RI). Two faculty mentors shall be appointed by the RI for each of the Partner Institutions (PI) in the Cluster. Each of them is expected to spend at least four (4) days in a month at the Partner Institute. The mentors would help in developing skills of the faculty members of Partner Institutes, assisting them in preparation of course materials and setting up laboratories. They are the bridge between the Resource Institutions and the Participating Institutions.

- *Subject Mentors*

Mentors shall also be identified from the Resource Institutions on a subject basis, in which case they would help the faculty members from the Participating Institutions in the specific subject. About twenty (20) subject Mentors may be identified from each resource institutions who are specialists in the subject/ discipline.

The Subject Mentors would help the faculty of the Participating Institutions in framing the course curriculum, teaching schedules, preparation of tutorial sheets, evaluation process, and projects of longer duration.

- *Faculty Development*

The faculty from the Partner Institution in various disciplines would visit the Resource Institution in the region once a year for one month. The visit of the five faculties from five participating institutions in a particular subject would take place in consultation with the *Subject Mentor* of the Resource Institution in the region. The visit of the faculty from the Participating Institutions in different subjects is likely to take place throughout the year. A separate budget is needed for such visits.

During the visit to the Resource Institutes, the faculty members from the PIs would have a well defined schedule of work including getting acquainted with the computational and other laboratory facilities, courses both at the undergraduate and postgraduate levels, the test facilities of ongoing research projects.

- *Joint Supervision of Students' Project*

The faculty of the Resource Institutions should be encouraged to undertake project guidance of B.Tech./ M.Tech students from the Participating Institutions. For this purpose a modest professional development grant may be provided to the mentors of the Resource Institutions for the project supervision. The grant could be utilized for attending conferences/ seminars/ meeting other contingent expenses related to the project.

The student projects can also be guided jointly by the faculty of the two institutions and the course-work can be undertaken at both the places.

- *Lecture Series by Eminent Faculty*

Lecture series particularly in the new and emerging areas are to be conducted by the Partner Institutions. New and emerging areas have been identified which include Biotechnology, Environmental Engineering, Energy Management, Remote Sensing, Sustainable Development Technology, Materials Technology, Nanotechnology, Polymer Technology, Food Process Engineering and many other fields of direct relevance to Industry. For this purpose, a provision of at least one lecture a month by an eminent scholar or professional engineer in each of the Partner Institutions is necessary.



- *Emeritus Fellowship*

Services of well known faculty members superannuating from the Resource Institutions could be utilized effectively in the Partner Institutions. After superannuation, such faculty members can be offered emeritus fellowships along with other perks at par with the existing faculty in the Participating Institutions so that their expertise and knowledge can be utilized in generating human capital. For this purpose, at least twenty (20) emeritus fellowships are to be established at each Participating Institutions. This arrangement will create opportunities for at least some superannuating faculty members in a respectful manner.

- *Student Exchange*

The bright students from the Participating Institutions can be given an opportunity to spend one semester at a Resource Institution for which due academic credit should be transferred to their parent institutions.

Materials prepared by the Resource Institutes, such as videos, computer-based multimedia packages are to be distributed amongst the students of the Participating Institutions. Having established the special network connectivity between the institutions in the Cluster, the courses can be offered by the faculty members of the Resource Institutes via Multicast technique.

- *The Institutions under the Adoption Scheme*

At present IIT Guwahati is the mentor institute for IIIT Guwahati, IIIT Manipur and CIT Kokrajhar. IIT Guwahati is also providing help to NIT Meghalaya, NIT Mizoram and NIT Sikkim. However, IIT Guwahati will also undertake mentorship of the following Institutions.

- i. National Institute of Technology, Mizoram
- ii. Assam Engineering College, Guwahati (State Govt. College)
- iii. Jorhat Engineering College, Jorhat (State Govt College)
- iv. School of Engineering (Tezpur Central University)

v. National Institute of Technology, Meghalaya

**5. Involvement of IIT Guwahati in terms of R&D work in the following important areas**

**5.1 DEFENCE :**

Faculty members from different departments of IIT Guwahati have been involved in defence-related research in the form of undertaking time-bound R&D projects. Some of the important projects already undertaken and completed are listed below.

- Study to Identify and Develop Sensor and triggering mechanism for shutting down of electronic systems in heavy lighting situation – Department of Electronics and Electrical Engineering *sponsored by Army Technology Board*
- Design of Gear Avalanche Survival– Department of Design *sponsored by Army Technology Board*
- Laser based calibration methodology for thermal sensors in combustion measurements – Department of Mechanical Engineering *sponsored by DRDO*
- Design fabrication of a membrane based hydrogen separation system – Department of Chemical Engineering *sponsored by DRDO*
- Development of Nano Composite Permanent Magnet Based on (FePt/Fe)<sub>n</sub> Multilayer Thin Films – Department of Physics *sponsored by DRDO*
- Performance-Based Probabilistic Capacity Models for Concrete Structures subject to Blast loading – Department of Civil Engineering *sponsored by DRDO*

**5.2 HEALTH CARE INCLUDING MANUFACTURING HEALTH EQUIPMENT:**

Faculty members from different departments of IIT Guwahati have been involved in R&D activities in healthcare and other related areas. In some of the projects IIT Guwahati collaborated with reputed Medical Colleges to jointly carry out the projects. Some of the projects are

- Design and development of *Shape Memory Alloy* actuated flexible endoscope for diagnosis and surgery -- Department of Mechanical Engineering, IIT Guwahati and North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong *sponsored by DBT*
- Development of a single station Hip Joint wear simulator for simulated in vivo characterization of acetabulum-- Department of Mechanical Engineering, IIT Guwahati and North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong *sponsored by DBT*
- Developing light weight, durable and user friendly artificial limbs through Nanotechnology-based modification of conventional materials and optimizing mechanical component design for enhancing their functional performance-- Department of Mechanical Engineering, IIT Guwahati *sponsored by DST*
- Studies on Peptide- conjugated nanoparticles mediated antileishmanial drug delivery to macrophages – Department of Biotechnology *sponsored by DBT*
- Synthesis of Biodegradable Nanocarriers for Targeted Drug Delivery – Department of Biotechnology *sponsored by DBT*
- Development of novel tissue engineered silk biomaterial based wound dressing patch for diabetic foot ulcers – Department of Biotechnology *sponsored by DBT*
- Design and Development of an Electronic Patient Record (EPR) System – Department of Electronics and Electrical Engineering *sponsored by DST*
- Design and Implementation of a Blind Assistance System using FPGAs and Sensors – Department of Electronics and Electrical Engineering *sponsored by DeITy*

### **5.3 AFFORDABLE HOUSING:**

Faculty members from Civil Engineering and Design Department are competent to undertake research on this area. Some projects **are** being carried out in the broad area of housing such as –

- Evaluation and enhancement of seismic capacity of Assam-type housing – Department of Civil Engineering *sponsored by DST*

### **5.4 RAILWAYS :**

Faculty members from Civil Engineering Departments are involved in activities related to Indian Railways, like design of railway bridges, health monitoring of existing bridges in the form of undertaking of time bound projects of Indian Railways. Some of them are-

- Instrumentation of three numbers of steel girder bridges for running of tonne loaded boxn wagon trains on N F Railway – Department of Civil Engineering *sponsored by Indian Railways*
- Design and Construction of 74.45mtr. Span ROB with PSC superstructure with footpath on pile foundation over existing Railway Crossing at KM 17.170 on Road Silchar-Badarpur (NH-53) under project – Department of Civil Engineering *sponsored by Indian Railways*

#### **5.5 ELECTRONICS HARDWARE:**

A number of faculty members are actively engaged in the research related to design and development of hardware. Some of them are

- On Line Testing f Complex VLSI Circuits using FDD Theory of Discrete Event system – Department of Computer Science and Engineering *sponsored by DeITy*
- Design, fabrication and testing of low power analog front-end chip for Heart rate detection – Department of Electronics and Electrical Engineering *sponsored by DeITy*
- Design of Carbon Nanotube Field Effect Transistor (CNFET) based amplifiers Department of Electronics and Electrical Engineering *sponsored by DeITy*
- Design and Fabrication of Chips for Information Transmission and Processing -- Department of Electronics and Electrical Engineering *sponsored by DST*

IIT Guwahati plans to enhance the activities of all the sub areas mentioned above. Hon'ble Prime Minster wants more participation of IIT Guwahati in these important areas.

**ANNEXURE- 10**

**Hostel Affairs Board (HAB):** Hostel Affairs Board (HAB) is the governing body of the Hostels under Dean of Students' Affairs and headed by a Chairman (faculty member). It acts as the central coordinating authority for all hostels. The main function of the HAB is to coordinate and execute all activities related to hostels through Hostel Management Committee of each hostel. This body passes all policy matters related to the hostels and has the overall responsibility of ensuring the implementation of hostel constitution.

HAB consists of following members:

- |   |                             |
|---|-----------------------------|
| 1. Chairman, Hostel Affairs Board                   | - Chairman                  |
| 2. All Wardens                                      | - Members                   |
| 3. All Associates Wardens                           | - Members                   |
| 4. General Secretary, Hostel Affairs Board          | - Member Secretary          |
| 5. Vice President, Students Gymkhana Council        | - Member                    |
| 6. All Hostel General Secretaries                   | - Members                   |
| 7. Deputy / Assistant Registrar (Nominated by DoSA) | - Non Member, Jt. Secretary |

**Warden and Associate Warden:** Each hostel has a Warden and Assoc. Warden, who are the faculty members of the Institute appointed by the competent authority of the Institute.

**Warden Council:** The Warden Council consists of Wardens and Associate Wardens of all the Hostels and the Chairman, Hostel Affairs Board is the Chairman of Warden Council.

**Hostel Disciplinary Committee (HDC):** A committee with following composition at the HAB level looks into the matters relating to misconduct/indiscipline by hostel inmates.

- |  |                         |
|--|-------------------------|
| 1. Chairman, Hostel Affairs Board          | - Chairman              |
| 2. Warden of concerned hostel              | - Member Secretary      |
| 3. Associate Warden of concerned hostel    | - Member                |
| 4. HAB Chairman's nominee                  | - Member                |
| 5. General Secretary of concerned hostel   | - Member                |
| 6. General Secretary, Hostel Affairs Board | - Member, Jt. Secretary |
| 7. Caretaker of concerned hostel           | - Invitee               |

**Hostel Caretaker:** A Hostel Caretaker is an Institute employee (staff member in the level of Superintendent / Junior Superintendent etc.) assigned to assist the Warden/Associate Warden and the Hostel Management

Committee (HMC) to carry out their duties.

**Hostel Management Committee (HMC):** The Hostel Management Committee (HMC) is a body of elected representatives of the General Body of the hostel and chaired by the Warden. The HMC is a managerial body of the hostel working according to the Hostel Constitution. As a managerial unit, it is both the functional as well as a deciding body. It shall be responsible for the overall smooth management of the hostel.

The HMC consists of the following members (Office Bearers):

- |                                       |                     |
|---------------------------------------|---------------------|
| 1. Warden                             | - Chairman          |
| 2. Associate Warden                   | - Vice Chairman     |
| 3. Hostel General Secretary           | - Member, Secretary |
| 4. Convener Mess Management Committee | - Member            |
| 5. Maintenance Secretary              | - Member            |
| 6. Sports Secretary                   | - Member            |
| 7. Cultural Secretary                 | - Member            |
| 8. Welfare Secretary                  | - Member            |
| 9. Library Secretary                  | - Member            |
| 10. Technical Secretary               | - Member            |

**Mess Management Committee (MMC):** Each hostel has a Mess Management Committee to look into all the aspects for a smooth, efficient, functioning of the concerned hostel mess. MMC mainly looks after the following matters: decides the menu, monitors the quality of food, mess timing and hygiene, checks the process of preparation of proper food and interacts with Mess Manager/Caterer regularly for proper functioning of the mess. The committee will also look after day-to-day functioning of the Hostel Canteen.

**Contracts Recommendation Committee:** A committee, chaired by Chairman HAB, for awarding mess contracts of different hostels and giving recommendations of various contracts that serve the Hostels under the HAB.

**Contracts Awarding Committee:** A committee with the following members is assigned to award contract for various outsourced services within hostels.

1. President, Gymkhana Council (DoSA)
2. Chairman, HAB
3. Warden/Associate Warden of each hostel
4. Convener from the Mess Management Committee of each hostel
5. General Secretary (Hostel Affairs Board)

6. Deputy / Assistant Registrar nominated by Administration of IITG

The President of the Gymkhana Council will be the Chairman of Contracts Award Committee. The Contracts Award Committee makes recommendations for the contracts of the following services of the Hostels for consideration of the higher Authority.

1. Mess Contracts
2. Hostel Canteen Contracts
3. Hostel Juice Centre Contracts
4. Hostel PCO & Xerox Contracts

**Cleaning Services:** Cleaning services of the hostels are also outsourced and matter of awarding cleaning contract is looked after by the Establishment Section of the Institute.

**ANNEXURE- 11**

**A. Hostel Housekeeping Service:**

Presently, the housekeeping in the hostel is outsourced to third party firms, and is managed by the Establishment Section of IITG. Number of cleaning service personnel provided depending on the area of the hostel. Each hostel has one cleaning supervisor, provided by the cleaning service firm, who is expected to coordinate the service, and also to work as the contact point between the firm and the hostel caretaker. The following are the main aspects that come under this contract.

1. Cleaning and upkeeping of the common areas of the hostel

Cleaning and moping is done two times daily. The firm procures necessary cleaning materials themselves.

2. Cleaning and upkeeping of all the toilets of the hostel

Thorough cleaning of the toilets are to be done three times daily. The firm procures cleaning materials. The Institute through its Establishment Section provides toiletries and fresheners.

3. Individual hostel rooms.

Day-to-day cleaning and upkeeping of the individual hostel rooms is the responsibility of the concerned boarder. However, periodically, service can be availed for a thorough cleaning of the room, through requests for the same put up to the caretaker.

4. Clearing the surroundings of the hostel from grass and weeds.

The same service provider carries out periodic trimming and clearing of grass and weeds in areas within the hostel premises, so that the surroundings is clear at any given time.

**AA. Feedback mechanism:**

1. Each hostel, through the caretaker and student representatives (mainly the elected Maintenance Secretary, who is a member of the Hostel Management Committee), assesses the work on a daily basis. The summary of the assessment is forwarded through the Warden to the Hostel Affairs Board (HAB) at the end of every calendar month.
2. Based on the feedback, and after discussions with the Assistant Registrar (SA), and, as and when necessary, with the concerned hostel Wardens; the Chairman HAB forwards recommendations for clearing the bill for the service provided for the particular month. Any penalties for falling short of expectations, and unsatisfactory level of service are also included in this recommendation. As a practice, in cases where such penalties are recommended, the opinion of the Dean of Student Affairs is sought before forwarding the recommendations.
3. Periodic discussions with the representatives of the firm is conducted to apprise the firm about the expectations and shortcomings, so as to improve the service provided.

**B. Hostel Dining Hall and Kitchen:**

The cleaning and upkeeping of the areas of the hostel being used by the Mess Catering Service provider, like the kitchen, the dining area, preparation area and the surroundings, is the responsibility of the Mess Catering firm, as per the contract.

The Mess Management Committee (MMC) (only student members), the convener of which is an elected representative and member of the Hostel Management Committee (HMC), supervises and assesses the cleanliness and hygiene of the above areas, and alerts the caretaker and the HMC regarding any concerns.



The matters are then taken up with the mess-catering firm, and if needed penalties are imposed, besides drawing their attention to the issue.

**C. Hostel Canteen/Juice Centre/ Stationery Services:**

The concerned service provider is responsible for the cleanliness and upkeep of areas coming under these services. Monitoring and feedback mechanism is the same as that of the mess catering service.

**D. Garbage Disposal:**

Garbage disposal is taken care of by a service provider duly appointed by the Institute through the Establishment Section. The service includes daily clearing of the garbage bins placed in the hostel.

**E. Other maintenance matters:**

Maintenance of the fittings, furniture, minor civil work, etc are taken care of by the Maintenance Cell. All kitchen equipment also come under this, unless under AMC through the concerned vendor. The caretaker of the hostel and the elected student representative (Maintenance Secretary, who is a member of the HMC), monitors the maintenance matters.

**F. Issues and Concerns**

Some of the key issues faced are the following.

**F.1 House Keeping Service:** No major concerns.

**F.2 Dining hall and Kitchen:**

Many issues come up with the civil construction, especially related to the drainage and sewerage which are major concerns in almost all the hostels. The Maintenance Cell of the Institute tries its best. A major relook into the entire drainage/sewerage system associated with the hostels need to be considered. It is understood that the Engineering Cell (upon the recommendations of the Maintenance Cell) has already taken up the worst affected hostels: Subansiri and Dibang.

**F.3 Hostel Canteen/Juice Centre**

It may be noted that the original designs of the older hostels (Manas, Dihing, Kapili, Siang) did not include provision for canteen or juice centre. Such facilities were later on added in makeshift arrangements. While the newer hostels include certain provisions in their design, a full-fledged canteen was not intended to be functional in those locations. With the pressing demands from the student community, canteens in many hostels are functioning elaborately, stretching the infrastructure much beyond its capacity. Safety, cleanliness and hygiene are major concerns here.

**F.4 Garbage disposal**

The whole set up and mechanism of garbage disposal within the hostel needs to be reconsidered. All aspects including garbage bins, collection and transport are not addressed up to satisfaction.

**F.5 Other maintenance matters:**

**F.5.1 Regular maintenance:** Maintenance process being slow is a major concern. When it comes to maintenance of plumbing related work, workmanship is also criticized quite often. Regarding the maintenance of the kitchen equipment, availability of qualified personnel seems to be a concern.

**F.5.2** Land subsidence and buildings: A number of hostels are affected by the continuing land subsidence, even after the occupation of the hostel. Dibang hostel is a particular case in this regard. Presently there are major concerns in Barak hostel as well.

**F.5.3** Seepage/water logging and pooling: Poor quality of building construction has led to major seepage issues in many hostels. The dining hall block, leading to the reception of Dibang hostel, dining hall blocks of Kameng, Barak and Umiam hostels are examples where major difficulties are identified. Water drainage system in many hostels, especially in Dibang and Subansiri are in a very bad shape.

## **G. Plan and Suggestions**

### **G.1 Regarding F.3 Canteen:**

It is understood that the hostels under construction, the girls' hostel, Dhansiri and the New Boys' Hostel have proper food courts and cafeterias included in their design, as per directions of the Director, and discussions with the Dean of Students' Affair and the Dean of Institute Planning and Management. A committee constituted to look into the development of cafeterias within the hostel premises, or in the cluster of a few hostels is expected to come up with suggestions regarding the location and other details of this facility. Once these facilities are established, the existing canteen and juice centre facilities may be discontinued.

### **G.2. Regarding F.4 Garbage Disposal:**

In discussions with the Establishment section, and the service-providing firm, proper procedure and facilities are being drawn up. At the hostel level -

1. With the initiatives of the Dean of SA, it is decided to explore possibilities to use the four biogas plants available in the campus (presently one is functional), where uncooked bio-waste from the kitchens of the hostels can be used. This may be expanded with installation of additional bio-gas digesters, depending on the feasibility and need.
2. Prototype digesters being explored in the Civil Engineering Dept of the Institute being considered for the processing of cooked food waste. Preliminary discussions in this regard is conducted with the concerned faculty, which concluded that 30% – 50% of the cooked food waste from the hostel could be taken care of in this way.
3. It is decided to procure garbage disposal bags in place of the presently adopted clear-and-refill dust bins. Presently this will be employed in a few hostels on trial basis.

### **G.3 Improvisation of the Kitchen and Dining Facility:**

The HAB is planning to go through the details of the infrastructure including equipment that is presently available with the hostel mess, and come up with its report on changes and facilities to be added to improve the get up and functioning, emphasizing on the hygiene and cleanliness aspect. Providing training for mess workers on cleanliness and hygiene is also under consideration. This will be considered as the first step in the continuing efforts to modernize and automate the hostel dining facility.

### **G.4 Introduction of Additional Sports and Recreational Facilities in hostels:**

Presently, each hostel has very limited sports facilities within its premises. As discussed in the previous SAC meeting, it is planned to improve these facilities. This will be done in coordination with the Sports Board. In addition to the hostel specific facilities, it is also planned to have facilities like basketball court, volleyball court, etc. be made available.

### **G.5 Formation of the well-being group**

SA section has recently formed a well being group of faculty members to look into the welfare of the entire campus. This group is expected to interact with the students, as well as visit the hostels frequently to assess all aspects of the hostel life, as well as the academic and other activities of the students. Their feedback will be helpful to improve all aspects of hostel life.

#### **G.6 Initiative from Maintenance Cell**

With the accumulated job going overboard, the Maintenance Cell has recently come with an innovative idea weekly camping, under which the team including the Associate Dean of IPM, I/C Maintenance Section, concerned engineers and other men would be spending one afternoon every week in one particular hostel. Two hostels have already been covered under this, and the response was very good. Most of the pending work regarding the fixtures and routine maintenance matters are taken care of on the spot, and all other matters are noted down to be taken up. With the very positive response, and the success of this camping, it is planned to continue this activity.

#### **G.6 Specific suggestions**

##### **G.6.1 Separate maintenance cell for hostels**

It was explained that the main issue that the Maintenance Section faces in handling most of the matter is due to lack of manpower (to supervise and expedite the matter). It is understood that the same maintenance section handles all maintenance matters related to the entire campus. It is suggested to have a separate cell dedicated to look after the maintenance matters of the hostels.

##### **G.6.2 Manpower**

Presently all hostels have two wardens, who are faculty members of the institute. Recently it has been decided to add one more warden to each hostel. The supporting staff includes one caretaker for each hostel, who is expected to look after most of the day-to-day running of the hostel. The Head of the SA Section is the coordinating staff for caretakers of all the hostels, who also look after all other matters of the SA section. It is suggested that one supporting staff at the level of AR be appointed to take care of matters related to the hostel administration, and coordinate with the caretakers in discharging their duties.

##### **G.6.3 General ambience and common amenities**

It is recognized that, along with provide the necessary facilities -- like a comfortable living room, good quality and hygienic boarding facilities, and minimal recreational facilities -- other desirable amenities like a reasonably good library and reading room facility, visitors lounge, music room, etc be made available. General getup and ambience also need improvement. Presently such matters are financially supported by the student fund, which is generated through a contribution collected from each student every semester (at the time of registration). This being limited, it is necessary to be supplemented through other sources.

##### **G.6.4 Incentives and remunerations to the personnel involved**

It is recognized that considerable amount of time and effort is spent by the personnel involved in the smooth running of the hostel. Dedicated and involved attention is demanded in discharging the duties, many times beyond the call of routine job. In order to make all the policies and plans to be implemented in an effective way, it is necessary to attract serious individuals who are willing to get involved in the management of the hostel system. Such efforts may be reciprocated appropriately.



Group Photo after completion of Swachha Bharat Abhiyan Launching Programme



Campus Cleaning Drive



Completing the Cleaning tasks



Address by  
the Director



Questioning  
hour on  
cleanliness of  
campus and  
neighbourhood



Pledge Taking

**List of Major Works Completed:**

Sl.No	Project	Value of Work (in lacs)	Name of Contractor	Completed on	Remarks
1.	Construction of 18 units of D-type quarters in 3 blocks (Phase-III)	531.78	S.M. Khetwat	12.07.13	The scope of work included construction of 18 units of D-type qtrs of 104.55 sqm each for Assistant Professor
2.	Construction of SAC phase-II, Canteens and Open stage	3260.82	Arunoday Construction Pvt. Ltd	31.10.13	The scope of work included SAC building housing the yoga room, technical & cultural boards & clubs, Faculty canteen, Student's canteen and Open stage..
3.	Construction of Kendriya Vidyalaya Phase-II	839.16	S.M. Khetawat	30.06.13	The scope of work in this contract includes school Building extension, Principal & Teachers' quarters and Auditorium.
4.	Construction of 28 units of B-type residential quarters (phase-III) at IIT Guwahati	457.71	Bright Construction Corporation	30.10.13	Scope of work included G+3 stories RCC building for residential Accommodation for staff.
5.	Construction of Boys' Hostel No.8 at IITG campus.	2433.70	Rajshekhhar Construction Pvt.Ltd	30.09.13	Total capacity of hostel 450 rooms out of 504 rooms was completed. Where 40 nos of rooms were off loaded from the contractor's scope and 14 nos room not constructed due to bad soil condition as per BXWC.
6	Construction of Security Roads phase-III	244.63	Sri Puspa Deka	31.08.13	Total length of the road 2866mtrs, carriage way width 4.50 mtrs.
7	Lowside Air Conditioning works of new 4X300TR HVAC plant (phase-II) at IITG	351.82	Veejair Engineering Co.	17.03.14	The Scope included supply and installation of pumps, electrical panels and AC piping network in Academic Complex.
8	Installation, testing & commissioning of 11KV sub-stations with associate works (phase-II) in the IITG campus	142.58	M/s Electroking	15.10.2013	The scope included installation of 11kv panel/RMUs, 11/0.4 kv transformers, LT panels & 1.1KV cable laying works
9	Infrastructure development of sports complex.	117.58	M/s. OM Construction	30.11.2013	For conduct of the inter-IIT sports meet in the campus the sports infrastructure were repaired & upgraded.
10	Earth filling work in proposed playground including approach road at IITG campus.	117.40	Sri Puspa Deka	15.08.2013	As the number of IITs has increased a new cricket ground was developed for the inter IIT sports meet.
11	Renovation of swimming pool at IITG Campus	83.81	M/s. Madona & Co	15.08.2013	As diving is not included in the curriculum of the inter IIT Sports meet, the depth of the pool was reduced to 2.20m from 5.70 m to use the entire

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					pool for practice & conduct of games.
12	Construction of 30 units of F type Residential qtrs (Phase-IV).	964.79	M/s T & T Projects Ltd.	30.08.2014.	The scope of work includes construction of 30 units of F-type quarters of 158 sqm each for Professors.
13	Construction of 30 units of E-Type residential Quarters in 5 Blocks.(Phase-IV)	882.00	M/s T & T Projects Ltd.	June 2014.	The scope of work include construction of 30 units of E-type quarters of 137.02 sqm each for Associate Professors
14	Extension of Academic Complex Ph-III Department of CSE, Civil, HSS, Chemistry and Maths Building at IITG.	2241.83	M/s Tribeni Construction	31.12.2013	Completed on 31 <sup>st</sup> December 2013, The scope included four storey of Civil Engg Deptt. and two storey of Maths , HSS, SSC and one storey of Chemistry Dept.

**Status of Major Ongoing works :**

Sl. No.	Project	Value of Work (Rs. in lakhs)	Name of the Contractors	Status as on Oct'14		Remarks
				Physical Progress	Financial Progress (Rs. in Lakhs)	
1	Construction of 1000 seater Boys' Hostel no.10	8227.81	M/s Simplex Projects	51%	3804.00	The work was awarded on 18.10.2012. Out of 1000 rooms 239 nos rooms in block 1 and 2 have been handed over for occupation in September 2014. Common facilities like kitchen, dining, games etc shall be ready by January 2015. The whole building is likely to be completed by May 2015.
2	Construction of Girls' Hostel 2 (500 capacity) & Badminton complex.	5140.63	M/s Badri Rai & Co	70%	3283.85	The work was awarded on 23.11.12. The scope of work includes a 500 seater Girl's hostel and a state of art Badminton & ymnasium complex. The Badminton & Gym was completed efore the inter IIT sports meet in Dec 2014. 172 nos double seater rooms & Common facilities were completed in July'14. The Girl's Hostel is expected to be completed by March'15.

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3	Construction of Academic complex phase-IV & Class Room Complex	6094.69	M/s Badri Rai & Co	45%	2192.20	The work was awarded on 23.11.12. The scope of work includes vertical extension of two floors of Chemistry & EEE Deptt, Two floors of Mechanical Deptt and G+4 storied Class room complex. The vertical expansions are in the final stage of completion and the class room complex will be completed by Nov 2015 due to increase in the scope of work.
4	Construction of Community Hall near D-type quarters at IIT Guwahati campus.	273.46	M/s T & T Projects Ltd.	95%	142.00	Few finishing works are left including false ceiling works. It was decided to provide AC work is not started yet. The false ceiling work will be done after AC work. Expected to be completed by Nov'14.
5	Construction of G+5 storied Guest House No.2. at IIT Guwahati campus	4059.07	M/s Brahmaputa Infrastructure Ltd	30%	865.13	The work was awarded on 15.03.2013 the scheduled date of completion is 30.09.2015. the progress of work is suffered due to modification of 50% part of foundation designed as per site condition during execution.
6	Construction of Research Building complex.	5675.00	M/s Shree Gautam Construction Co Ltd.	35%	1337.10	The work was awarded on 26.03.13. The scope of work includes G+9 storied building with ten labs per floor of approx. 100 sqm each. The work is expected to be completed in all respect by March 2016.
7.	Construction of Married Scholars' Hostel (Phase-II) and Dormitory Building (Phase-II) at IITG campus Guwahati.	2532.53	M/s Ganesh Tamuli & Co	35%	775.00	The work was awarded on 10.12.2013 and is under progress. The scope of work includes 96 nos flats of area 44 sqm each for married scholars. Scheduled date of completion is December 2015.



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8	Construction of Boundary Wall phase-IV.	1476.90	M/s MACROCOS M Builders	25%	188.00	The work was awarded on 06.12.13. The scope of work includes 4700 meters of boundary wall as per standard design. The work is in progress. The work is expected to be completed by July 2015.
9	Design, Manufacture, Supply, Installation, Testing and commissioning of passenger lifts in various building of IIT Guwahati.	129.13	M/s OTIS Elevators company Ltd.	65%	67.83	The works has been awarded to M/s OTIS Elevator company on 19.12.2013. The materials has been supplied and the installation work is in progress.
11	Construction of Data center in IIT Guwahati.	381.47	M/s Labotek, New Delhi	30%	41.95	The work was awarded on 08.05.2014. The scope of work include development of a space in the 3 <sup>rd</sup> floor of the computer center to data center including PAC, Electrical safety & Security system and associated civil works. Works are expected to be completed by December 2014.

**List of New Projects in finalization stage:**

Sl.no	Project	Estimated Value	Remarks
1.	Construction of Boys' Hostel no.11	99,14,26,000.00	The total capacity of boy's hostel including the one under execution will be 5200. In order to meet the immediate future requirement of boys' hostel, the Institute is now planning to undertake construction of another boys' hostel of capacity 1000 as a repetition of the ninth boys' hostel recently completed. Tender has already been invited and received. The work will be allotted shortly.
2	Construction of Academic Complex Phase-V (DoD,CSE,Physics,Chemical,HS S,Mathematics)	46,33,59,825.11	Vertical extension of another two floor over existing building as per requirement of the departments. Tender will be floated shortly.
3	Construction of Nano Technology Building	18,47,49,696.00	Center for Nano technology is one of the research center of the institute is presently in J Block of Academic complex. The total area of the building is 5000 Sqms including clean room. Tender will be floated shortly.

4	Construction of F-type Residential Towers	97,41,27,038.88	The estimate was approved in the 75 <sup>th</sup> BWC meeting. Tender is under preparation and shall be floated shortly.
5	Construction & repairing of internal roads of the IIT Guwahati campus through Assam Public Works Department (Roads)	8,30,00000.00	This work has been entrusted to Assam PWD. Tender have been invited and work may be started shortly.
6	Augmentation of 33 KV and 11 KV substations in the IITG campus		
<b><u>Part-A</u></b>			
<u>1.1</u>	Procurement of 7.5 MVA, 33/11 KV ONAN power transformer with OLTC.	(ordered value) 68,12,209.00	Supply order issued to M/s Industrial System (Authorised dealer of M/s Voltamp transformer LTD, Baroda on 22.07.2014)
<u>1.2</u>	Procurement of 7.50 KVA and 500 KVA, 11/0.433 KV cast resin type transformer.	(ordered value) 58,41,213.00	Supply order issued to M/s Rachem RPG LTD, Pune on 22.07.2014)
<b><u>Part-B</u></b>	Supply installation testing and commissioning of various substation equipments.	(Estimate Value) 92,01,208.00	Tendering process for the work is in progress.

**INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI**  
**PROMOTIONAL SCHEME FOR NON-TEACHING STAFF**  
**(GROUP-‘B’, ‘C’ & ERSTWHILE ‘D’)**  
**WITH APPROPRIATE PAY BAND, GRADE PAY AND DESIGNATION**

Entry Level Post/Scale	1 <sup>st</sup> upward movement	2 <sup>nd</sup> upward movement	3 <sup>rd</sup> upward movement
<b>ADMINISTRATIVE</b>			
<b>Junior Assistant</b> PB-1 (Rs.5200-20,200) Grade Pay 2000	<b>Senior Assistant</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Junior Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>Junior Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Section Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>TECHNICAL</b>			
<b>Junior Technician/Junior Mechanic / /Junior Laboratory Assistant</b> PB-1 (Rs. 5200-20,200) Grade Pay 2000	<b>Senior Technician/ Senior Mechanic / Senior Laboratory Assistant</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Senior Technician Gr. I / Senior Mechanic Gr. I / Senior Laboratory Assistant Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Senior Technician (SG) / Senior Mechanic (SG) / Senior Laboratory Assistant (SG)</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>Junior Technical Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Technical Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Technical Superintendent</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Junior Technical Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>Driver Grade-II</b> PB-1 (Rs. 5200-20,200) Grade Pay 2000	<b>Driver Gr-I</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Senior Driver</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Senior Driver Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>HEALTH SERVICES</b>			
<b>Auxiliary Nurse / Midwife</b> PB-1 (Rs. 5200-20,200) Grade Pay 2000	<b>Midwife Gr. II</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Midwife Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Senior Midwife</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>Pharmacist</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Pharmacist Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Senior Pharmacist</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Pharmacist Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800
<b>Staff Nurse</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Staff Nurse Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Staff Nurse</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Senior Staff Nurse Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>LIBRARY STAFF</b>			

<b>Senior Library Information Assistant</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Asst. Library Information Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Library Information Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Senior Library Information Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>ACCOUNTS STAFF</b>			
<b>Junior Accountant</b> PB-1 (Rs. 5200-20200) Grade Pay 2400	<b>Senior Accountant</b> PB-2 (Rs. 9300-34,800) Grade Pay 2800	<b>Junior Accounts Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Accounts Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>Junior Accounts Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Accounts Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Accounts Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Section Officer (Accounts)</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>PHYSICAL EDUCATION</b>			
<b>Assistant Coach</b> PB-1 (Rs. 5200-20,200) Grade Pay 2000	<b>Assistant Coach Gr. I</b> PB-1 (Rs. 5200-20,200) Grade Pay 2800	<b>Coach</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Coach Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600
<b>Physical Training Instructor / Coach</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Physical Training Instructor Gr. I / Coach Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Physical Training Instructor / Senior Coach</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Phy. Training Officer / Senior Coach Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>MAINTENANCE</b>			
<b>Junior Engineer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Assistant Engineer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Assistant Engineer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Senior Assistant Engineer Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>Assistant Foreman</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Foreman</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Foreman</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Senior Foreman Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>SECURITY</b>			
<b>Assistant Security Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Security Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Security Officer Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Security Officer (SG)</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>OFFICIAL LANGUAGE</b>			
<b>Junior Hindi Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4200	<b>Hindi Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4600	<b>Senior Hindi Officer</b> PB-2 (Rs. 9300-34,800) Grade Pay 4800	<b>Senior Hindi Officer Gr. I</b> PB-2 (Rs. 9300-34,800) Grade Pay 5400
<b>MULTI SKILLED</b>			
<b>Junior Attendant</b> PB-1 (Rs. 5200-20200) Grade Pay 1800	<b>Attendant</b> PB-1 (Rs. 5200-20200) Grade Pay 1900	<b>Senior Attendant</b> PB-1 (Rs. 5200-20200) Grade Pay 2400	<b>Senior Attendant (SG)</b> PB-1 (Rs. 5200-20200) Grade Pay 2800

\*those who are in the scale 2550-3200 or 2610-3540 or 2650-4000 as on 1.1.2006 or later, will be placed in PB-1 ( GP 1800) after re-training. So their next promotion after 10 year intervals will be to grade pays 1900, 2400, and 2800.

**Main features of the Promotional Policy for B, C & erstwhile D are as follows:**

1. This policy envisages essentially three promotions in the career of an employee of IITs. However, if exceptional case arises, the matter regarding further promotions will be decided by the Board of Governors of the Institute.
2. For new recruits who have not yet availed of any assessment will get three promotions after 10, 20, 30 years of regular qualifying service from the date of joining.
3. For those who may have availed one or two assessments or may have availed of pay scale beyond the permissible two assessments under previous assessment schemes, will be eligible for availing the third and last assessment after 10 years of the first/second assessment, or 20/30 years from the date of joining IIT whichever is later.
4. As far as direct recruits are concerned who joined on or after 01.01.2006, their pay would be fixed in accordance with the Section II of part A of the first schedule of CCS (RP) Rules 2008.
5. The date of annual increment in the revised pay structure shall be a uniform date i.e. 1<sup>st</sup> July of every year. Employees completing 6 months and above in the revised pay structure as on 1<sup>st</sup> July will be eligible for grant of annual increment.
6. The rate of increment in the revised pay structure shall be 3% of the sum of the pay in the pay band and grade pay as applicable rounded off to the next multiple of 10.
7. The recruitment shall be made only at the entry level in the ladder.
8. The designations and pay scales before revision are taken from the Recruitment and Career Progression Scheme (RCPS) for IITs, dated February 22 2006 (No. F.13-4/2005-TS-I as revised vide D. O. letter No. F. No.13-4/2005-TS-1, dated July 2, 2007).
9. Where designations (mostly in 3<sup>rd</sup> upward movement) are not available in RCPS, are allotted keeping parity with the previous designation within same cadre/ladder.
10. Recruitment by promotion: In case of recruitment by promotion, 5 years of experience in the immediate lower GP within the same cadre/ladder or 10 years of experience in the immediate lower and next immediate lower GP taken together within the same cadre/ladder or 16 years of experience in the immediate lower and next immediate lower/ next further immediate lower GP taken together within the same cadre/ladder will be considered as eligible. For illustration, towards eligibility for promotion to the GP of 4600, (a) experience of 5 years in the GP of 4200, or (b) experience of 10 years in the GP of 4200 and 2800 taken together, or (c) experience of 16 years in the GP of 4200, 2800, 2400 / 2000 taken together will be applicable.
11. For the Accounts Cadre posts, persons without commerce background but having the already prescribed requisite experience in the F&A / Audit related works may also be considered subject to approval of the Director.
12. This Promotion Policy may be re-visited in future subject to justification for the same.

**ANNEXURE – 15**

**Name of the Post : Senior Technician Grade I /Senior Mechanic Grade I/ Senior Laboratory Assistant Grade I**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB 2 ₹9300 – 34800, Grade Pay : ₹ 4200
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Senior Technician / Senior Mechanic / Senior Laboratory Assistant with a minimum of 5 years' experience Or, Experience of 10 years as Junior Technician / Junior Mechanic / Junior Laboratory Assistant
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Deputy Director / Dean Administration/ Director's Nominee 2. Registrar 3. Deputy Registrar (Admin) 4. Head of concerned Dept./Centre/Section
12.	RESERVATIONS	As per Rules
13.	REMARKS	All three cadres will be treated as a single post with designations depending on qualifications.

**Name of the Post: Junior Technical Officer**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB 2 ₹9300 – 34800, Grade Pay : ₹5400
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ABSORPTION TO BE MADE	Senior Technical Superintendent with a minimum of 5 years' experience Or, Experience of 10 years as Senior Technical Superintendent and Technical Superintendent taken together.* Or, Experience of 16 years as Senior Technical Superintendent, Technical Superintendent and Jr. Technical Superintendent taken together.
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dy. Director / Dean Administration/ Director's Nominee 2. Registrar 3. Head of Academic Dept./Centre
12.	RESERVATIONS	As per Rules
13.	REMARKS	None

**Name of the Post : Senior Technician (SG) /Senior Mechanic (SG) /Senior Laboratory Assistant (SG)**

No	Heading	Information
1.	CLASSIFICATION	Group B
2.	SCALE OF PAY	PB2 ₹ 9300 – 34800, Grade Pay : ₹ 4600
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Not Applicable
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Not Applicable
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	By Promotion (100%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Senior Technician Gr.I / Senior Mechanic Gr.I/ Senior Laboratory Assistant Gr.I with a minimum of 5 years' experience Or, Experience of 10 years as Senior Technician Gr.I / Senior Mechanic Gr.I/ Senior Laboratory Assistant Gr.I and Senior Technician / Senior Mechanic / Senior Laboratory Assistant taken together Or, Experience of 16 years as Senior Technician Gr.I / Senior Mechanic Gr.I/ Senior Laboratory Assistant Gr.I and Senior Technician / Senior Mechanic / Senior Laboratory Assistant and Junior Technician / Junior Mechanic / Junior Laboratory Assistant taken together
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Deputy Director / Dean Administration/ Director's Nominee 2. Registrar 3. Deputy Registrar (Admin) 4. Head of concerned Dept./Centre/Section
12.	RESERVATIONS	As per Rules
13.	REMARKS	All three cadres will be treated as a single post with designations depending on qualifications.



**Name of the Post : Deputy Librarian**

No	Heading	Information
1.	CLASSIFICATION	Group A
2.	SCALE OF PAY	PB3 ₹15600 - 39100, AGP : ₹9000
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 50 years
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	(1) Master's Degree in Library Science/Information Science/ documentation with at least 55% of the marks or equivalent, or, one year specialisation in Library Science/Information Science/Archives and Manuscript keeping with a degree in Science with at least 55% marks or equivalent.(2) 8 years' experience in a responsible position in an academic library out of which 5 years as an Assistant Librarian or in an equivalent position.
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment or Deputation (75%) / Promotion (25%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Assistant Librarian in the Grade Pay of ₹6000 with 5 years' experience
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Director 2. Deputy Director / Dean Administration 3. Registrar 4. Chairman Library Committee
12.	RESERVATIONS	As per Rules
13.	REMARKS	Anything not included above shall be in line with UGC / MHRD rules and regulations / guidelines framed from time to time.

**Creation of Non-Faculty Posts, IIT Guwahati, June 2014 (proposed re-appropriation)**

Post		Pay Band	Grade Pay	Sanctioned pre 2011	Created 2011	Created 2012	Created 2013	Total Posts	Currently in Position	Approved Posts for creation and surrender (77th BOG)	Proposed Re-appropriation [surrender(12) and creation(13)]	Net Total Posts]	Currently in position (10) also includes	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Group B &amp; C</b>														
Junior Attendant	PB1	5200 - 20200	1800	24	11	7	0	42	34		-5		37	
Attendant	PB1	5200 - 20200	1900	0	0	2	0	2	2	5			7	
Sr. Attendant	PB1	5200 - 20200	2000	0	0	0	0	0	0	7		7	14	
Junior Assistant	PB1	5200 - 20200	2000	91	24	0	-20	47	46				47	2 upgraded to Sr. Asst.
Senior Assistant	PB1	5200 - 20200	2800	5	15	12	12	44	32		-20		24	4 upgraded to JS, 1 on lien
Junior Superintendent	PB2	9300-34800	4200	1	29	9	0	39	25				39	
Superintendent	PB2	9300-34800	4600	0	0	0	12	12	11	18			30	
Junior Accountant	PB1	5200 - 20200	2400	0	5	0	0	5	4				5	
Senior Accountant	PB1	5200 - 20200	2800	0	0	0	3	3	0		-3		0	
Jr. Accounts Officer	PB2	9300-34800	4200	0	3	0	0	3	2	5			8	1 on lien
Accounts Officer	PB2	9300-34800	4600	1	0	0	2	3	3				3	
Sr. Accounts Officer	PB2	9300-34800	4800	0	0	0	0	0	0				0	
Jr. Technician etc.	PB1	5200 - 20200	2000	30	0	0	-25	5	0	10	-5		10	
Sr. Technician etc.	PB1	5200 - 20200	2800	0	20	0	8	28	28				28	
Sr. Technician Gr. I etc.	PB2	9300-34800	4200	0	0	0	0	0	0			28	28	
Asst. Foreman	PB2	9300-34800	4200	0	0	0	0	0	0				0	
Jr. Technical Superintendent	PB2	9300-34800	4200	44	24	0	0	68	51		-18		50	11 upgraded to TS, 1 on lien
Technical Superintendent	PB2	9300-34800	4600	4	0	14	10	28	18			9	37	4 upgraded to STS
Sr. Technical Superintendent	PB2	9300-34800	4800	0	0	0	2	2	2	9			11	

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Jr. Technical Officer	PB2	9300-34800	5400	0	0	0	0	0	0	0	0	8	8	
Midwife	PB1	5200 - 20200	2000	1	0	0	0	1	1				1	
Midwife Gr. II	PB1	5200 - 20200	2800	0	0	0	0	0	0				0	
Midwife Gr. I	PB2	9300-34800	4200	0	0	0	0	0	0	1			1	
Sr. Lib. Information Assistant	PB2	9300-34800	4200	10	0	0	0	10	5		-5		5	1 on lien
Asst. Lib. Info Officer	PB2	9300-34800	4600	0	0	0	0	0	0				0	
Lib Info Officer	PB2	9300-34800	4800	0	0	0	5	5	5	5			10	
Jr. Engineer	PB2	9300-34800	4200	6	0	0	0	6	0				6	
Asst. Engineer	PB2	9300-34800	4600	7	0	0	0	7	5				7	1 upgraded to SAE
Sr. Assistant Engineer	PB2	9300-34800	4800	0	0	0	2	2	2				2	
Asst. Coach	PB1	5200 - 20200	2000	0	2	0	0	2	1				2	
Asst. Coach Gr. I	PB1	5200 - 20200	2800	0	0	0	0	0	0	1			1	
PTI / Coach	PB2	9300-34800	4200	1	0	0	0	1	1				1	1 upgraded as PTI Gr. I
PTI GR I / Coach GR I	PB2	9300-34800	4600	1	0	0	0	1	1				1	1 upgraded to Sr. PTI
Sr. PTI / Sr. Coach	PB1	9300-34800	4800	0	0	0	0	0	0				0	
Phy. Training Officer (PTO)	PB2	9300-34800	5400	0	0	0	0	0	0	2	-1		1	
Driver Grade - II	PB1	5200 - 20200	2000	6	0	0	0	6	4				6	
Driver Grade I	PB1	5200 - 20200	2800	0	2	0	0	2	2				2	
Sr. Driver	PB2	9300-34800	4200	0	0	0	0	0	0	4		2	6	
Asst. Security Officer	PB2	9300-34800	4200	2	0	0	0	2	1				2	
Security Officer	PB2	9300-34800	4600	0	0	0	1	1	1	1			2	
Hindi Officer	PB2	9300-34800	4600	1	0	0	0	1	0				1	
Senior Hindi Officer	PB2	9300-34800	4800	0	0	0	1	1	1				1	
<b>Group B + C Total (Net)</b>				<b>235</b>	<b>87</b>	<b>44</b>	<b>13</b>	<b>379</b>	<b>288</b>	<b>68</b>	<b>-57</b>	<b>54</b>	<b>444</b>	
<b>Group A</b>														
Dy. Registrar	PB3	15600-39100	7600	3	1	0	2	6	6				6	1 on deputiation
Asst. Registrar	PB3	15600-39100	5400	10	1	0	2	13	10				13	1 on lien
Superintending Engineer	PB4	37400-67000	8700	1	1	0	0	2	2				2	
Executive Engineer	PB3	15600-39100	6600	3	0	0	0	3	2				3	
Asst. Exe. Engineer	PB3	15600-39100	5400	2	2	0	0	4	4			1	5	
Workshop Superintendent	PB3	15600-39100	7600	0	1	0	0	1	1				1	1 on lien
Asst. Work. Superintendent	PB3	15600-39100	5400	1	0	0	0	1	0				1	
Librarian	PB4	37400-67000	10000	0	1	0	0	1	1				1	
Dy. Librarian	PB3	15600-39100	7600	1	0	0	0	1	1	1			2	
Asst. Librarian	PB3	15600-39100	5400	2	0	0	0	2	1				2	

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Asst. Phy. Education Officer	PB3	15600-39100	5400	0	0	0	0	0	0	2			2	
Sr. Security Officer	PB3	15600-39100	5400	1	0	0	0	1	1				1	on consolidated pay
Sr. Medical Officer	PB3	15600-39100	6600	1	0	0	0	1	1				1	1 upgraded to CMO (NFS G)
Medical Officer	PB3	15600-39100	5400	2	3	0	0	5	2				5	2 upgraded to CMO (NFS G)
Technical Officer Gr. II	PB3	15600-39100	5400	0	0	17	0	17	0				17	
Technical Officer Gr. I	PB3	15600-39100	6600	0	3	3	8	14	14	10		2	26	
<b>Group A Total (net)</b>				<b>27</b>	<b>13</b>	<b>20</b>	<b>12</b>	<b>72</b>	<b>46</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>88</b>	
<b>Grand Total (Net)</b>				<b>262</b>	<b>100</b>	<b>64</b>	<b>25</b>	<b>451</b>	<b>334</b>	<b>81</b>	<b>-57</b>	<b>57</b>	<b>532</b>	
<b>Faculty: Staff Ratio</b>								<b>1.1</b>					<b>1.1</b>	

<b>Year</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
<b>Actual No. of Students</b>	3305	3895	4501	4891
<b>Sanctioned Faculty Posts (10:1 ratio)</b>	331	387	451	489
<b>Allowed Non-Faculty Posts (1:1.1 ratio)</b>	364	426	495	538

**INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI**

**GUIDELINES AND PROCEDURES FOR THE AWARD OF PROFESSOR EMERITUS  
(Honorary)**

**PROFESSOR EMERITUS (Honorary)**

**PREAMBLE**

The institution of the honorary title "Professor Emeritus" of the Institute is a symbolic step in laying the foundation of continuity and performance of academic association for life. This is a cherished tradition of all great Centers of Learning. It is an honour of high distinction. This title will be conferred on a Professor of the Institute in recognition of his/her having devoted a "major part" of his/her life and scientific career in enhancing the academic and scientific status and prestige of the Department in particular and the Institute in general, to which he/she belonged as a center of learning, through national and international recognition.

**CRITERIA FOR THE AWARD**

1. The honorary title of "PROFESSOR EMERITUS" will be conferred on a Professor of the Institute in recognition of his/her having devoted his / her academic career in enhancing the academic status and prestige of the Department in particular and Institute in general, to which he/she belonged, as a Center of Learning, through national and international recognition.
2. He / She should no longer be in the service of the Institute at the time of conferment of the title.

**PROCEDURE**

1. The Departments should forward the nominations.
2. A Committee constituted by the Director for the purpose will consider all the nominations at its meeting and recommend suitable name for award of honorary title of "PROFESSOR EMERITUS" to the Board of Governors for approval.
3. The title of "Professor Emeritus" shall preferably be conferred in person.

**NOMINATION :**

1. Nomination for the "Professor Emeritus" may be proposed any time after the retirement of the faculty member from service.

2. Nominations for the honour of Professor Emeritus may be made jointly by not less than five faculty members from the department to which the nominee belonged (**proposed, seconded and supported** by three faculty members) of which at least two must be members of the Senate.
3. Nomination should be forwarded to the Committee and duly endorsed by the Head of the Department concerned.
4. Nomination should not be made in favor of a deceased person.
5. The nomination proposal may also include a detailed resume and contributions of the individual concerned.
6. The Search Committee so constituted, after scrutinizing the nominations received, will make appropriate proposals to the Board of Governors for approval.

**FACILITIES / HONOUR TO BE EXTENDED TO "PROFESSOR EMERITUS"**

1. Free library membership for Life time.
2. Invitation as a Distinguished person in important functions of the Institute.
3. He/she will be shown all the courtesies due to a person having long association with the Institute and on whom a high honour has been conferred.
4. He/She may be called upon by the Institute to assist in any capacity for which his/her stature as an elder and respected academic person may be needed.
5. The name of the "Processor Emeritus" should be included in the Faculty list of the Institute, Courses of Study Bulletin and other such documents of academic nature.

Since this is the first time that IIT Guwahati is initiating this award hence the above is the proposed guidelines for such.

The Board is requested to consider and approve.

With the above approval, the Department of Civil Engineering has sent a proposal of the name of Prof.D.N.Buragohain former founder Director of IIT Guwahati and a retired Professor of the Department of Civil Engineering for the award of the honorary title of "Professor Emeritus".

109<sup>th</sup> Meeting of the Senate approved the proposal of offering honorary position of Professor Emeritus to Professor D. N. Buragohain and since it is first time without having a formal guideline, same may be approve.

The Board is requested to consider and approve.

**SCHEME FOR EMERITUS PROFESSOR AT IIT GUWAHATI**

1. The scheme is intended to utilize the services of highly qualified and experienced superannuated Professors in the Institute as well as other Institutions in India who have been actively engaged in research and teaching improvement programme of the Institute in the preceding years to enable them to pursue active research in their field to specialization as also to undertake curriculum development, and participate in the monitoring and evaluation of existing programme and development of new programmes at the Institute within their field of competence.
2. The remuneration carries an honorarium of ₹ 60,000 p.m.
3. a) The awardee will also be paid TA @10,000 p.m. to enable him to commute every day from his residence (if resides outside the campus) to the Institute **OR** b) suitable accommodation will be provided without TA (if resides within the campus).
4. The remuneration will be available ordinarily for a period of 3 years and maximum of 5 years but not beyond the age of 70 years.
5. The awardee will be provided a non-lapsable contingent grant of ₹ 50,000/- per annum for secretarial assistance, travel, stationery, postage, telephone rental and consumables etc. He/She could also be provided additional modest financial support to enable him/her to pursue his/her research and academic activities on the merits of each case.
6. The awardee will be required to teach at least one course every semester and will also participate in guiding B.Tech./M.Tech. projects. He/She can participate in Ph.D. supervision as a Co-Supervisor.
7. The awardee can also participate in sponsored research project and consultancy.
8. The IIT will provide to the awardee the usual facilities in the Department / Centre in which he / she would work.
9. A Professor selected for the post under the scheme should normally join the post within a period of three months from the date of offered, failing which the offer would be treated as withdrawn. In special cases, a further extension in the joining time may be allowed upto three months.
10. The case of the Professor concerned will be examined by a Committee to be appointed by the Chairman, Board of Governors after the proposal for the offer to the faculty member has been put up by the Director.
11. No Professor will be considered for the said offer after one year of his/her retirement from the Institute service, except for the continuation.

**Tabular Form showing comparison between Presently Existing Rules and Proposed Revisions**

<b>Item No.</b>	<b>Presently Existing Rules</b>	<b>Suggested Modifications/ Proposed Revisions</b>
(1)	<p><b>General Norms:</b></p> <ul style="list-style-type: none"> <li>i. Every faculty member will be entitled to a PDA of Rs.1,00,000/- every financial year.</li> <li>ii. Unspent amount at the end of a year will be carried over to the next year up to a block of three years.</li> <li>iii. If there is a shortfall in available funds to attend a conference in a year 1 or year 2 in the three year block, then the faculty member may arrange for the extra funds from any other source (including from his or her own resources) and claim refund for the amount when more funds become available in the scheme. This means the refund claim will in the beginning of the next financial year.</li> <li>iv. All expenditure will have to be approved by the Dean Faculty unless the power is delegated (see below).</li> <li>v. For faculty members joining the Institute in the middle of a year, the amount of PDA credited for that financial year will be calculated on a pro-rata basis based on the number of months left in the year, including the month of joining. The year of joining will be the first year in the block of three years for that faculty member. A faculty member can opt to forgo PDA for the year he / she joins.</li> <li>vi. <b>Each department will form a committee which will prepare and update a list of conferences, journals, e-conferences, open access journals which are considered technically sound. Support will be given</b></li> </ul>	<p><b>General Norms:</b></p> <ul style="list-style-type: none"> <li>i. Entitlement will be as per MHRD norms issued from time to time.</li> <li>ii. No change</li> <li>iii. No change</li> <li>iv. Revised and moved to next item</li> <li>v. For faculty members joining the Institute in between a financial year, the amount of PDA credited for that financial year will be calculated on a pro-rata basis based on the number of months left in the year, including the month of joining. The year of joining will be the first year in the block of three years for that faculty member. A faculty member can opt to forgo PDA for the year he/ she joins. Similarly, for faculty members retiring from the regular service or leaving the service in between a financial year, the amount of PDA credited for that financial year will be calculated on a pro-rata basis based on the number of months remaining in regular service in the year, including the month of retiring in case of retirement and excluding the month of release in case of leaving.</li> <li>vi. While seeking financial support from PDA, each faculty member should provide a brief justification on the technical soundness of</li> </ul>



	<p>as detailed below only if the concerned journal / conference is in the approved list and the Head of the Department in every case will certify that this is so in the application.</p>	<p>the conferences/ symposiums/ e-conferences/ journals/ open access journals, etc which he/ she intends to attend or acquire publication – as the case may be. Each department will have a proper mechanism to decide on technical soundness of the conferences/ e-conferences/ journals/ open access journals, etc. Through this mechanism, the Head of the concerned department will recommend these applications.</p> <p>vii. The word <b>Conference</b> used hereinafter is used to also mean <b>Symposium, Workshop, Seminar, Training Programme/School</b> and other similar research meeting. It also includes research meetings approved in the proposal of advancement of Department of Design by the BOG in its 75<sup>th</sup> meeting held on 26.09.2013.</p>
		<p><b>Following item is newly added:</b> <b>General Procedure:</b></p> <p>i. Requests for travel support or reimbursement from PDA are to be made by filling appropriate forms (which are available in the intranet webpage of Faculty Affairs Section) and submitting it along with necessary documents to the Faculty Affairs Section.</p> <p>ii. All these requests (duly filled forms) should bear appropriate recommendations of the Head of the concerned department.</p> <p>iii. Requests covered by the rules will be</p>

		approved by the Competent Authority. In this case, the Competent Authority is: Dean, Faculty Affairs.
(2)	<p><b>Attending international conference/ symposium abroad:</b> It is expected that each faculty member attends at least one conference abroad in the block of three years. Rules for attending conferences abroad as approved from time to time, will be followed.</p>	<p><b>Attending international conference/ symposium abroad:</b></p> <ol style="list-style-type: none"> <li>i. The fund from the PDA is primarily for attending international conferences by faculty members and presenting their research papers. In such conferences, an invited talk or chairing of a session is also equally eligible for consideration. It is expected that each faculty member attends at least one conference abroad in the block of three years.</li> <li>ii. For all other kind of participation in conferences, the Head of the concerned department should give specific recommendation on its usefulness to the professional development of the faculty member or to the department/Institute.</li> <li>iii. Rules for attending conferences abroad as approved from time to time, will be followed.</li> </ol>
(3)	<p><b>Attending conference/ symposium in India:</b> Rules, as framed from time to time, for attending conferences inside the country will be followed. All applications for attending conferences in India shall be considered by the concerned Departments and approved by the Head.</p>	<p><b>Attending conference/ symposium in India:</b></p> <ol style="list-style-type: none"> <li>i. To present a paper or deliver an invited talk or chair a session in a conference in India, the financial support can be obtained from the PDA.</li> <li>ii. For all other kind of participation in conferences, the Head of the concerned department should give specific recommendation on its usefulness to the professional development of the faculty</li> </ol>

		<p>member or to the department/Institute.</p> <p>iii. Rules for attending conferences in India as approved from time to time, will be followed.</p>
(4)	<p><b>Registration fees of e-conferences:</b> This will be allowed on the recommendation of the Head of the concerned department <b>who will ensure that this is as per the Department's approved list.</b></p>	<p><b>Registration fees of e-conferences:</b></p> <p>i. Registration fees of e-conferences are allowed.</p> <p>ii. Reimbursement for registration fee of regular conference without participation/attending may be considered under special circumstances.</p>
(5)	<p><b>Payment for Publication in Open Access Journals and payment for pages and colour photographs and conferences:</b> This will be allowed on the recommendation of the Head of the concerned department who will ensure that this is as per the Department's approved list.</p>	<p><b>Payment for Publication Charges:</b></p> <p>i. Payment for publication charges and Payment for pages and colour photographs in Journals and conferences are permitted.</p>
(6)	<p><b>Membership of Professional Bodies:</b> Full membership fee of international/ national professional societies may be allowed. There will be no limit on the number of such societies. Life memberships can also be availed.</p>	<p><b>Membership of Professional Bodies:</b> <i>No change is proposed.</i></p>
(7)	<p><b>Books:</b> Books can be purchased. Journal subscriptions are also allowed. Approval for these items will be by the Head of the concerned department.</p>	<p><b>Books:</b></p> <p>i. Books (including e-books and e-resources) for academic use can be purchased.</p> <p>ii. Journal subscriptions for professional use are allowed.</p> <p>iii. Purchase of reprints of research articles is allowed.</p>
(8)	<p><b>Chemicals:</b> Purchase of chemicals, biological samples, and glassware required for professional purposes will be allowed. Approval for these items will be by the Head of the concerned department.</p>	<p><b>Following modifications are proposed:</b></p> <p><b>Items related to Professional Activities:</b></p> <p>i. Purchase of equipment/ instruments or accessories of equipment, teaching aids and software products required for</p>

		<p>professional purposes will be allowed.</p> <ul style="list-style-type: none"><li>ii. The expenses incurred for maintenance or repairing of equipment/instrument used for professional purpose may be covered.</li><li>iii. The cost incurred in fabrication work, sample analysis, etc related to research work/experiment will be allowed.</li><li>iv. Purchase of chemicals, glassware, samples and data/database required for professional purposes will be allowed.</li><li>v. <b>The regular purchase procedure of the institute based on GFR of GOI is to be followed for purchasing these items.</b> Further these items must be entered on an appropriate stock register at the department level.</li><li>vi. Instead of reimbursement claim, if necessary, an advance amount may be granted by the competent authority. The settlement is to be made within one month from the date of purchase or the ending date of financial year whichever is earlier.</li></ul>
		<p><b>Following item is newly added:</b></p> <p><b>Regulated Purchase of Items related to Professional Activities:</b></p> <ul style="list-style-type: none"><li>i. The list of items allowed to purchase under this provision is given in Table-A. This list will be revised time-to-time with the approval of the Director.</li><li>ii. Each item (Refer: Table-A) is allowed once in the block of 3 years.</li><li>iii. The total amount of purchase of these items will be limited to the <b>one fourth</b> of the total</li></ul>

		<p>amount of PDA (rounded up to nearest multiple of thousands) in the block of 3 years.</p> <p>iv. The regular purchase procedure of the institute based on GFR of GOI is to be followed for purchasing these items. Further these items must be entered on an appropriate stock register at the department level.</p> <p>v. Instead of reimbursement claim, if necessary, an advance amount may be granted by the competent authority. The settlement is to be made within one month from the date of purchase or the ending date of financial year whichever is earlier.</p> <p><b>Note:</b> For the present block of 3 years which is ending on 31.03.2015, the amount available for this provision will be minimum of Rs.75,000/- and the unspent amount of the PDA.</p>
(9)	<p><b>Contingency:</b></p> <p>a) Contingency includes stationery and consumables and internet access bills, for professional purposes.</p> <p>b) The amount spent will be limited to Rs.20,000/- per year. All such consumables must be for professional use and their use must be explained if an explanation is asked for. There will be no carry-over of this component, in that, more than Rs.20,000/- cannot be spent in any one year. Approval for these items will be by the Head of the concerned department.</p> <p>c) Mobile phones, tables, and computers and their accessories, and parts for upgradation of these are not</p>	<p><b>Contingency:</b></p> <p>i. Contingency includes stationery, consumables, printer cartridges, external/portable memory devices, internet modem/dongle/router, and Internet access bills, for professional purposes.</p> <p>ii. The amount spent on contingency will be limited to the one third of the total amount of PDA in a block of 3 years (rounded up to nearest multiple of thousands), in the following manner. Let the total contingency amount be <b>x</b> in a block of 3 years. Let</p>

	<p>part of contingency. d) Telephone bill will not be a part of contingency.</p>	<p>rounded down amount of <math>(x/3)</math> to nearest multiple of thousands be <b>y</b>.  a) Allocated amount in the first year is <b>y</b>  b) Unspent from (a) above + Allocated amount <b>y</b> in the second year;  c) Unspent from (a) and (b) + Allocated amount <math>(x - 2y)</math> in the third year.  iii. Purchase of any item that is required to keep or store books, stationeries, consumables and equipment will be allowed.  iv. Telephone bills will not be a part of contingency.</p> <p><b>Note-1:</b> If the total amount of PDA is 3 lakhs in a block of 3 years, then the total contingency amount <b>x</b> will be 1 lakh in the block of 3 years.  (a) First year, allocated amount <b>y</b> is 33,000.  (b) Second year, allocated amount <b>y</b> is 33,000 + Unspent from (a)  (c) Third year, allocated amount <math>(x - 2y)</math> is 34,000 + Unspent from (a) and (b).  <b>Note-2:</b> For the remaining period of present block of 3 years which is ending on 31.03.2015, the amount available for contingent expenses under PDA will be Rs.1 Lakh minus the total amount reimbursed so far in this block under contingent expenses.</p>
(10)	<p><b>Travel Costs for Pursuing Research Work:</b>  Faculty members who have assured financial support towards local hospitality/ sustenance allowance from a foreign host (or under inter-government faculty exchange schemes) <b>for a period of not less than two weeks</b> may be permitted to use the</p>	<p><b>Travel Costs for Pursuing Research Work, etc:</b>  i. Faculty members who have assured financial support towards local hospitality/ sustenance allowance from a foreign host (or under inter-government faculty</p>

	<p>PDA for covering the travel costs (including visa fees and travel related to it) between the host institution and IIT Guwahati <b>once a year</b> for pursuing research work. It will also be allowed for Indian hosts, but closer scrutiny will take place before allowing such cases.</p>	<p>exchange schemes) may be permitted to use the PDA for covering the travel costs (including visa fees and travel related to it) between the host institution and IIT Guwahati for pursuing research work. It will also be allowed for Indian hosts, but closer scrutiny will take place before allowing such cases.</p> <ul style="list-style-type: none"><li>ii. To present a research project proposal or to carry out a research work/ experimental work in other institutions within India, if a faculty member is unable to mobilize fund from other sources for travel support then, only the travel cost and accommodation expenses as limited by the Institute rules may be granted from the PDA.</li><li>iii. All such travels are to be made as per prevailing travel rules of the Institute.</li></ul>
		<p><b>Following item is newly added:</b> <b>Supporting travel of Co-Author/Co-Worker from IIT Guwahati:</b></p> <ul style="list-style-type: none"><li>i. The travel of one of the co-authors of the paper who is either an employee or a student of IIT Guwahati to attend and present the paper in a conference may be funded from the PDA of a faculty member, in case if the faculty member is not seeking financial support (TA, DA and Accommodation expenses) for self from the PDA.</li><li>ii. The travel cost and accommodation expenses as limited by the Institute rules for a trip made by a student or an employee of</li></ul>

		<p>IIT Guwahati to carry out a research work / experimental work in other institutions within India may be supported from the PDA of the faculty member (who is guiding that work).</p> <p>iii. The entitlement of accommodation and travel mode &amp; class, etc will be as per the entitlement of the traveler and not of the concerned faculty member.</p> <p>iv. If necessary, an advance amount may be granted by the competent authority. In that case, the advance will be drawn and settled by the concerned faculty member himself/herself.</p>
		<p><b>Following is newly added:</b></p> <p>All other cases or special cases of seeking fund from the PDA which are not covered by above mentioned rules will be put up to the Director for a decision.</p>

<b>Table-A</b>	
<b>List of Regulated Purchase Items for the use of Professional Activities</b>	
1.	E-Book Reader
2.	Printer
3.	Scanner
4.	Laptop/ Notebook/ Tablet Computer
5.	I-Pad/ Tablet



# **MEMORANDUM OF UNDERSTANDING (MOU)**

**Between**

**Society of Applied Microwave Electronics Engineering and Research (SAMEER),**

**IIT Campus, Powai, Mumbai,**

**An Autonomous Research and Development Institute under  
Department of Electronics and Information Technology (DeitY),  
Ministry of Communications and Information Technology,  
Government of India**

**And**

**Indian Institute of Technology Guwahati**

**Assam**

**For**

**Establishment of a SAMEER Centre**

**At**

**Indian Institute of Technology Guwahati Campus**

**Objectives:**

Society for Applied Microwave Electronics Engineering & Research (SAMEER) is an autonomous R & D institute under the Department of Electronics and Information Technology (DeitY), Ministry of Communications and Information Technology, Government of India since 1984. The organization was set up with the goal of becoming a premier research institute in the field of RF and microwaves technologies. SAMEER as an R & D institute is fully committed to contribute to the growth of technology development in the country through its persistent efforts in pursuing quality research and product development. SAMEER undertakes and executes sponsored projects for various Government agencies, public sector undertakings and industries. It has contributed in the development of many radio frequency systems and products which are required by Defence and Space sectors. It has also developed technologies which has high societal impact. In the span of almost three decades it has earned a reputation of being a unique R & D laboratory doing high quality research in the areas of Linear Accelerators, Atmospheric instrumentation, Optoelectronics, Communications, Radar systems, RF/Microwave/MM waves/ industrial systems and EMI EMC.

SAMEER operates through its headquarters at Powai, Mumbai and the other two Centres at Chennai and Kolkata respectively known as Centre for Electromagnetics and Centre for Millimeter Wave research.

SAMEER Mumbai has developed expertise in Linear Accelerator Technology for application in radiotherapy treatment of cancer patients. As a result of this technology development , expertise is available in critical fabrication, linac tube processing, furnace brazing, high voltage modulator, control console etc and the same will be useful for development of high power microwave tube and components proposed to be carried out in collaboration with EEE and other Departments of IIT Guwahati . The major goals of SAMEER centre at IIT Guwahati are given below:

1. Intensive R & D activities in the area of high power microwave tubes/components, including conventional as well as futuristic microwave tubes.
2. Limited Batch production of some critical and high technology microwave tubes and components

3. In future, SAMEER will also work in other thrust areas of microwave technology like antenna, microwave communication, radar technology, etc as per requirement.

These would find application in the area such as defence, space, atomic energy, and satellite communication. SAMEER has excellent facilities, equipment and expertise for research and development in the field of microwave technology for this purpose.

Indian Institute of Technology Guwahati (IIT Guwahati) is a leading academic institute engaged in technical education as well as frontline research. At present, there is considerable research activity in the area of microwave technology at IIT Guwahati. The facilities of SAMEER will be a great asset to the faculty and students of IIT Guwahati. Also, the R & D staff of SAMEER could find the academic atmosphere and activities of the Institute a source of ideas for innovation and experimentation. Thus, the establishment of SAMEER centre on the IIT Guwahati campus may be expected to lead to a very fruitful interaction and collaboration between the two and will benefit both.

### **Operational modalities:**

For establishment of a SAMEER Centre at IIT Guwahati campus, Society of Applied Electronics Engineering and Research (SAMEER), IIT Campus, Powai, Mumbai, an autonomous Research and Development Institute under Department of Electronics and Information Technology (DeitY), Ministry of Communications and Information Technology, Government of India and Indian Institute of Technology Guwahati, Assam have agreed as follows:

1. Indian Institute of Technology Guwahati will initially provide built up space (approximately 2000 square meter) for establishment of laboratory of SAMEER centre. Additionally, IIT Guwahati will provide the open area (about 150 square meters) in front of TIC for construction of radiation shielded facility. The space allotted in the TIC will be handed over back to IIT Guwahati after SAMEER builds its research facilities in the land allocated to it.
2. Quarters will be made available by IIT Guwahati for the initial staff working in SAMEER Centre at IIT Guwahati. However, modalities of licence fee and other payment will be worked out.
3. Land admeasuring of 2 acres behind Hospital for setting up their research facilities will be provided at a nominal lease amount of Rs.1 per annum. The title of the land will be with IIT Guwahati and in case, Department of Electronics and Information Technology (DeitY), Ministry of Communications and Information Technology, Government of India decides to shift the unit away from the IIT Guwahati campus; all assets will be handed over to IIT Guwahati on mutually acceptable terms. The initial period of lease will be for ten years and the period of lease will be extended later for a suitable period.
4. The infrastructure developed by SAMEER will be utilized for R & D purpose in the area of microwave and allied technology.

5. SAMEER facilities will be open to the students, research scholars and faculty of IIT Guwahati for research/academic purpose.
6. Similarly, Scientists of SAMEER will have access to Department of Electrical and Electronics Engineering, Department of Mechanical Engineering, Department of Physics, and other departments of IIT Guwahati as per requirement.
7. A scheme for research participation of IIT Guwahati Faculty and students in SAMEER will be worked out.
8. IIT Guwahati guest house facility will be extended to SAMEER centre.
9. All IIT Guwahati recreational facilities will be extended to the employees and families of SAMEER residing within IIT Guwahati.
10. OPD facilities at IIT Guwahati hospital will be extended to SAMEER employees and its families residing in IIT Guwahati campus on payment basis.
11. Wards of SAMEER employees will be eligible for admission in KV IIT Guwahati.
12. Facilities like Security, Housekeeping, Electrical maintenance etc will be extended to SAMEER Centre on payment basis at actual.
13. Engineering section of IIT Guwahati will extend help for civil, electrical and other related activities of SAMEER.
14. Scientists of SAMEER will be eligible for M. Tech programme in IIT Guwahati as sponsored candidate.
15. Scientists of SAMEER will be eligible for registration in IIT Guwahati for its Doctoral programme.
16. Director of SAMEER would forward to the Director, IIT Guwahati names of Scientists working in SAMEER for consideration by the senate for appointment as supervisor for particular M. Tech. /Ph.D. candidates working in SAMEER.
17. Plans for construction including future expansion, if any, on the plot allotted to SAMEER, will be required to have the concurrence of the IIT Guwahati.

Shri Vinod Kumar Sharma

Registrar

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