

Final

NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR.
DURGAPUR-713209, WEST BENGAL, INDIA
AGENDA NOTES

FOR

The 45th meeting of the Finance Committee of NIT Durgapur is scheduled to be held on 2nd July, 2018 from 10 : 30 A.M at Kolkata Guest house, I.I.T Kharagpur Kolkata Campus, HC Block, Sector – III, Salt Lake City, Kolkata- 700106.

Sl. No.	Item	Page No.
45.01	To Confirm the Minutes of the 44 th Finance Committee Meeting held on 9 th March, 2018.	01
45.02	To note action taken on the Minutes of the 44 th Finance Committee Meeting held on 9 th March, 2018.	01-02
45.03	To consider the fund position as on June 15 th 2018.	02
45.04	To consider the additional requirement of Fund under OH 31 and OH 36 for the Financial Year 2018-19.	02-03
45.05	To consider the Delegation of Financial power to Deans, Chairman (CEC) and HoDs for expenditure on items within the approved recurring budget.	03
45.06	To consider the Annual Accounts for the Financial Year 2017 – 18.	03
45.07	To ratify the revised DPR submitted to the MHRD under HEFA	03
45.08	To consider items recommended in the 49 th Senate meeting held on March 23, 2018.	04
45.09	To consider items recommended in the 50 th Senate meeting held on May 18 th , 2018.	04
45.10	To consider implementation of complete Enterprise Resource Planning (ERP) package at NIT Durgapur.	05
45.11	Any other Item with the permission of the Chair.	05

Item#: 45.01: To Confirm the Minutes of the 44th Finance Committee Meeting held on 9th March, 2018.

The 44th Meeting of the Finance Committee was held on 9th March, 2018 at Hotel O2 VIP, 641, Ramkrishna Pally, VIP Road, Kaikhali, Kolkata- 700052. The minutes of the said meeting was circulated amongst the Board Members for comments.

Minutes of the meeting incorporating the comments received from Under Secretary, Finance, MHRD, New Delhi is placed before the Finance Committee for consideration and confirmation.

**(Annexure- I)
Page No. 06**

Item#: 45.02: To note action taken on the Minutes of the 44th Finance Committee Meeting held on 9th March, 2018.

Item #	Subject	Action Taken
44.01	To confirm the Minutes of the 44 th Finance Committee Meeting held on 9 th March, 2018.	Confirmed
44.02 {43.02} (b)	(b) Maintenance of Residential Houses and Hostels	Maintenance section of the Institute has decided to execute the maintenance work of the whole Institute campus by putting up tender on the Central Procurement Portal, i.e www.eprocure.gov.in
44.02 {43.02} (c)	(c) Office space for Faculty & Research Scholar	Resolved.
44.02 {43.02} (d)	(d) Medical Unit Related Issue	A Study on an open source software known as "Bahmni" has been carried out and existing software for hospital running at IIT Delhi has been explored. The system of IITD is old, character based and non-integratable with existing ERP System of IIT Delhi. A detailed presentation will be sought for "Bahmni" to explore the suitability of the software in respect of MU, NIT Durgapur requirements.
44.02 {43.02} (e)	(e) Encroachment	The matter regarding Standard Lease Agreement of 186.7 acres land of NIT Durgapur with Durgapur Steel Plant (DSP) authority is under process. Letter has already been sent to MHRD, seeking approval for appointment of full time Estate Office in NIT Durgapur vide letter No. NITD/Estt./encroachment /2018 dated 23 rd May, 2018.

**Annexure – II
Page No. 09**

44.02	To consider implementation of complete Enterprise Resource Planning (ERP) package at NIT Durgapur	The matter is placed as a separate agenda item before the 45 th Finance Committee meeting vide Item No. 45.10
44.03	Any other items	Status report of paying salary and allowance to 22 Nos. of Hostel Employees is attached as annexure. Annexure – III Page No. 10

Item#: 45.03 To consider the fund position as on June 15th, 2018.

The fund position as on June 15th, 2018 is given hereunder for consideration.

Revenue (provisional)								(Rs in Lakh)
Object Head	Expenditure 2017-18	Opening Balance 01.04.2018	Grant released till 31.05.2018 during 2018-2019	IRG 2018-2019	Total fund Available with the institute	Actual Expenditure 14.06.2018 during 2018-19	Unspent/ Deficit Balance 14.06.2018	Requirement for 2018-19
[1]	[2]	[3]	[4]	[5]	[6]=[3]+[4]+[5]	[7]	[8]=[6]-[7]	[9]
OH - 31 (General)	5367.53	0.00	408.00	246.00	654.00	825.70	-171.70	8468.19
OH - 35 (Creation of Capital Assets)	6542.00	0.00	252.00	0.00	252.00	454.71	-202.71	1447.00
OH - 36 (Salaries)	4830.51	262.49	764.00	0.00	1026.49	2166.08	-1139.59	5096.11
Total (recurring)	16740.04	262.49	1424.00	246.00	1932.49	3446.49	-1514.00	15011.30

Item#: 45.04 To consider the additional requirement of Fund under OH 31 and OH 36 for the Financial Year 2018-19.

MHRD vide e mail dated 07.05.2018 has requested the Institute to submit the Additional Fund Requirement under OH 31 and OH 36 for the year 2018-19. The Institute has submitted the following additional requirement of fund under OH 31 and OH 36 as furnished in the table.

Placed before the Finance Committee for consideration please.

Object Head	Budget Estimate 2018-19 (as finalized in the Annual Plan meeting)	Fund allotment by MHRD	Additional fund required	Remarks / Reasons
[1]	[2]	[3]	[4]=[2]-[3]	[5]
OH - 31 (Grant in aid general)	8468.19	4688.00	3780.19	
OH - 36 (Grant in aid Salaries)	5096.11	4179.00	917.11	
Total	13564.30	8867.00	4697.30	

Item#: 45.05 To consider the Delegation of Financial power to Deans, Chairman (CEC) and HoDs for expenditure on items within the approved recurring budget.

It is proposed to delegate financial power to the Deans and HoDs for expenditure on items within the approved recurring budget as per the following norms.

- Chairman (SRCC)/Dean (R&C) Rs. 2 lakhs [with no annual limit]
- Chairman (CEC) – Rs. 2 lakhs [with no annual limit]
- Other Deans – Rs 1 lakh [up to Rs. 10 lakhs per annum]
- HoDs – Rs. 0.5 lakh [up to Rs. 2 lakhs per annum]

Item#: 45.06 To consider the Annual Accounts for the year 2017 – 18.

The Annual Accounts of the Institute for the Financial Year 2017-18 will be placed on the table for consideration by the Finance committee.

Item#: 45.07 To ratify the revised DPR submitted to the MHRD under HEFA.

A revised DPR on HEFA, along with cash flow statement and IRR, was submitted for *Utkarsha Bhavan under HEFA* after discussion with the MHRD. It will consist of a G +10 building housing a Central Research Facility, Central Laboratory Facility and four advanced centers of research; CRFEW, CARE, BEAT and IoTIS. The total project cost was estimated to be Rs. 97 Crore.

The above matter is placed for ratification by the Finance Committee as Annexure.

Item#: 45.08 To consider items recommended in the 49th Senate meeting held on March 23rd, 2018.

Resolution on item No. 49.4:

Item#15 : The Senate recommended the enhancement in the remuneration of the external examiner for PhD thesis from abroad from US\$300 to US\$500. For the external examiner from India, it was recommended to be increased to Rs. 5000/- for examination and Rs. 5000/- for conducting the viva voce. Earlier it was Rs. 3500/- and Rs. 1500/- respectively.

Submitted before Finance Committee for consideration.

Item#16 : The Senate recommended that the PhD supervisor who are from outside the Institute / retired faculty members of the Institute, shall be admissible for TA as per NIT Durgapur norms for attending pre-synopsis seminar and the thesis defence of her/his research scholar.

Submitted before Finance Committee for consideration.

Resolution on item No. 49.6: The Senate recommended that as suggested by the expert committee, the tuition fee for the Integrated M.Sc. Programme in Chemistry should be Rs. 7500/- per semester as annexure.

**Annexure – V
Page No. 20**

Submitted before Finance Committee for consideration.

Item#: 45.09 To consider items recommended in the 50th Senate meeting held on May 18th, 2018.

Resolution on item No. 50.5: The Senate recommended that the tuition fees of the candidates in categories G,H, I and J * shall be Rs. 20,000/- per semester.

- *
G = Full time sponsored research scholar from Government/Semi Govt./other highly reputed organizations/academic or research institute.
H = Part-time sponsored research scholars from reputed industries (Industry Research Program).
I = Part-time research scholars from academic /research institutions.
J = Part-time sponsored research scholars under Government of India schemes like TEQIP, etc as approved by the senate.

Submitted before Finance Committee for consideration.


Item#: 45.10 To consider implementation of complete Enterprise Resource Planning (ERP) package at NIT Durgapur.

As opined by the Finance Committee in its 44th meeting vide item # 44.07, Enterprise Resource Planning (ERP) package used by IIT Kharagpur, IIT Delhi, IIT Roorkee has been explored and a comparative study report prepared thereon is placed herewith as an annexure.

**Annexure – VI
Page No. 21**

Submitted for consideration please.

Item#44.11: Any other items with permission of the chair.


**Shri U.C. Mukherjee
Registrar (I/C) & Member Secretary,
Finance Committee
National Institute of Technology, Durgapur**

ANNEXURE - I

NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR.
DURGAPUR-713209, WEST BENGAL, INDIA

Minutes of the 44th meeting of the Finance Committee of NIT Durgapur held on 09th March 2018 at 10:30 A.M at Hotel O2 VIP, 641, Ramkrishna Pally, VIP Road, Kaikhali, Kolkata- 700052.

The following members attended the Meeting:

1. **Prof. Anupam Basu,** **Director & Chairperson**
Director
National Institute of Technology Durgapur
2. **Shri D. K. Singh, (Representing, JS & FA, MHRD)** **Member**
Under Secretary, Department of Higher Education,
Govt. of India. New Delhi
3. **Prof. P. Gupta,** **Member**
Professor, Department of Chemical Engineering,
National Institute of Technology, Durgapur
4. **Shri U.C. Mukherjee,** **Registrar-In-Charge**
Registrar-In-Charge,
Member Secretary, Finance Committee
National Institute of Technology Durgapur

Prof. Kamal Bhattacharjee, Dean (P&D) attended the meeting as a special invitee. The Chairperson, Finance Committee welcomed all members of the Finance Committee to the 49th meeting of the Finance Committee.

Item#: 44.01: To Confirm the Minutes of the 43rd Finance Committee Meeting held on 24th October, 2018.

The minutes of 43rd meeting of the Finance Committee held on 24th Oct'2017 along-with the comments on the minutes received from Director (NITs), DoHE, MHRD, New Delhi is confirmed.

Item#: 44.02: To note action taken on the Minutes of the 43rd Finance Committee Meeting held on 24th October 2017.

Noted and following items are discussed.

Item#	Subject	Action taken.
43.02 (a)	Renting of Shopping Complex	It is resolved unanimously that the ground floor and a portion of the 1 st floor space may be utilized for laboratory or other useful academic purpose and the rest of the space in the 1 st floor may be used as food court.

43.02 (b)	Maintenance of Residential Houses & Hostels.	Director had a meeting with Additional Director General of CPWD on proposal of handing over the maintenance of Residential Houses and Hostels. CPWD has expressed their inability to take up the maintenance job. Finance Committee opined that Institute should go for open tendering in accordance with GFR 2017.
43.02 (c)	Office space for Faculty & Research Scholar.	Sufficient numbers of cubicles and room has already been allocated to the Faculty and Research Scholars in the new Academic Building.
43.02 (d)	Medical Unit related issue	Proposal on Digitization of Medical Unit is discussed. In-principle approval accorded by the Finance Committee for an amount of Rs. 35,45,000/- for implementation and Rs. 14,00,000/- per year as recurring expenditure.
43.02 (e)	Encroachment	The lease agreement for Campus land area needs to be finalized with Durgapur Steel Plant authority. In accordance with the advice received from the Legal Counsel of the Institute the Finance Committee opined that the unauthorized occupants be removed by a full-time Estate Officer with a quasi-judiciary authority. Communication will be made with MHRD to get an approval for appointment of Estate Officer.
43.06	Finalization of Consolidated Budget for Financial Year 2018-19	Detailed Project Report deliberated. Expected date of completion should be included in the report, henceforth.

Item#: 44.03: To consider the minutes of the 32nd Building and Works Committee meeting of the Institute held on 15th January, 2018 and to consider minutes of the 33rd Building and Works Committee meeting of the Institute held on 1st March, 2018

Finance Committee approved the Minutes of the 32nd and 33rd Building and Works Committee meeting. As the fund available with the Institute under Non-Recurring head is limited, prioritizations of projects are to be made for gainful utilization of the limited fund

Item#: 44.04: To consider the proposal under Higher Education Funding Agency (HEFA) Credit Policy Framework.

Creation of Central Research Facility, Centralized Laboratory, Four Centre of Excellence, and Student Sports Centre are recommended by the Finance Committee under HEFA proposal with an estimated expenditure of Rs. 160.15 Crore.

Item#: 44.05: To consider Finalization of consolidated budget for the Financial Year 2018-19.

The head-wise consolidated budget proposal as was submitted by the Institute to Ministry was placed before the Finance Committee vis-à-vis the amount sanctioned by Ministry in each head.

Item#: 44.06: To consider the Fund allocation for tender in connection with Security Service.

The consolidated fund required for outsourcing the security services plus applicable taxes is recommended subject to the condition that the relevant provisions in GFR 2017 are duly followed while outsourcing security services by the Institute.

Item#44.07: To consider implementation of complete Enterprise Resource Planning (ERP) package at NIT Durgapur.

The Finance Committee opined to explore Enterprise Resource Planning (ERP) package used by a few other IITs/NITs/IIMs and other CFTIs, and to prepare a comparative study to place the same before next Finance Committee Meeting, for consideration.

Item#44.08: Installation and foundation of 30.5 meter National Flag mast at NIT Durgapur.

The Finance Committee recommended installation and foundation of 30.5 meter National Flag mast at NIT Durgapur.

Item#44.09: To consider the fund position of up to 28th February, 2018.

The fund position of the Institute as on 28/02/2018 was informed to the Finance Committee.

Item#44.10: Any other items with permission of the chair.

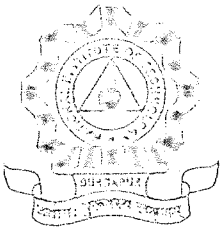
- **Director met the MHRD officials and informed the status report regarding the mess employees.**

The representative of JS & FA observed that details of the case and details of the financial implication of the proposal may be brought in the next meeting of the committee.

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



Shri U.C. Mukherjee
Registrar (I/C) & Member Secretary,
Finance Committee
National Institute of Technology, Durgapur.



राष्ट्रीय प्रौद्योगिकी संस्था ANNEXURE - II

महात्मा गांधी एवेन्यू, दुर्गापुर - 713209, (पश्चिम बंगाल), भारत

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

MAHATMA GANDHI AVENUE, DURGAPUR - 713209, INDIA -

URL : www.nitdgp.ac.in

No. NITD/ Estt./ encroachment/2018

Dated: May 23rd, 2018

To
Mr. K.Rajan,
Under Secretary,
Technical Section-III(NITs Desk)
Department of Higher Education,
Ministry of Human Resource Development,
Room No - 123, C-Wing, New Delhi-110001.

Sub: Approval for appointment of full time Estate Officer in NIT Durgapur.

Sir,

Attention is drawn to the fact that based on the advice of Legal Counsel of the Institute, the issue of encroachment in the Campus area was deliberated during 44th Meeting of the Finance Committee held on 9th March, 2018. The Finance Committee has opined that the unauthorized occupant in the Campus be removed through the full time designated Estate Officer with a quasi-judiciary authority. The matter was acceded by the 49th Board of Governors Meeting held on 9th March, 2018. In context to the above, approval for appointment of full time designated Estate Officer is sought for the Institute at the earliest.

With regards,

WMP
23/05/18
Registrar(I/C)

Spk

NATIONAL INSTITUTE OF TECHNOLOGY: DURGAPUR.

No. NITD/BOG

INTER DEPARTMENTAL MEMO

Date: 24/05/2018.

From:
Dy. Registrar (F&A) (I/c)

✓ To:
Registrar (I/c)

Sub: Status Report of Paying Salary and Allowance to 22 nos. of Hostel Employees.

The legal status report for the same is attached herewith for kind information of the Board.

The financial implication during the F.Y.2017-18 for the above is as below:-

1. Salary and Pay	Rs.100,21,552/-
2. Hostel Employees Welfare including EPF Gratuity etc.	Rs. 19,19,762/- ----- Rs.119,41,314/- -----

Submitted for kind information of the board.

Aditi
Dy. Registrar (F&A) (I/c)

24/5/18

CALCUTTA HIGH COURT

IN Re: F.M.A. 1517 OF 2011

With

C.A.N 5715 of 2011(Assigned)

National Institute of Technology Durgapur Applicant

Versus

BIJOY KRISHNA DAS & ORS. Respondent

Facts of the matter

1. Uniform service conditions for the workers/employees of Hostels/Messes attached to Universities and colleges were introduced as per guidelines issued by the Deputy Secretary, Education Department, University Education Branch, Govt. of West Bengal vide No.1583(1000-Edn(U) dated 19.10.1981with the concurrence of Finance Department vide their U.O.No. Group of 2292 dated 16.10.82. It is stated in the guidelines:-
 - a) The Hostel/Mess employees should be considered as employee of the respective hostel committee/control student's welfare committee.
 - b) The scale of pay Rs. 220-5-260-380-7-364-8-388 per month.
 - c) 50% of the Dearness Allowance sanctioned by the State Govt.
 - d) The staff members will retire on attending the age of sixty years.
 - e) The staff members are entitled to the retirement gratuity of one month's pay maximum of fifteen month's pay on the basis of last pay drawn.
 - f) The additional burden on account of these measures be borne by the State Govt.
 - g) This was effected from 1st April, 1981.
2. As per the Memorandum No. 874-Edn(CS)/IC-63L/12 dated 28.10.2014 issued by the Principal Secretary, Govt. of West Bengal, the said employees are treated as Group-D Govt. employees under Govt. of West Bengal and entitled to all service benefits as applicable to other govt. employees in West Bengal.
3. The Hostel/Mess employees of R.E.College enjoyed revised pay scale under Govt. of West Bengal w.e.f. 01.04.1989 vide Govt. order No. 1583(100)-Edn(U) dated 19.10.1981,w.e.f. 01.01.1996 vide order No.148(11)-Edn(U)/IU-8/96 Pt.dated 14.02.2000 and w.e.f. 01.01.2006 vide Memorandum issued by the Finance Department, Govt. of West Bengal respectively.
4. The MHRD, Govt. of India, took-over the full administrative and financial control of all R.E.Colleges and converted to NIT w.e.f. 14th May,2003 vide Notification No.F.35-1/2002-TS.III.
5. The Hostel/Mess employees working in NIT Durgapur placed their demand and filed a petition to the High Court of Calcutta vide W.P.No.7359 (W) of 2004 to consider them as Group-D staff of NIT Durgapur. The Hon'ble justice of Calcutta High Court,MaharajSinha gave the verdict that

- the petitioners be treated as permanent Group-D staff of Regional Engineering College and on that basis they are entitled to their respective salaries and allowances as fixed by the Director of Technical Education. An appeal was filed by NIT Durgapur to Division Bench against the verdict of Case, W.P. No.7359(W) of 2004.
6. There after, the Hostel/Mess employees placed their demand for implementation of Group-D status, Career Advancement, facility of General Provident Fund, HRA etc. under memorandum No. 1068-Edn(CS)/IC-63-L/2012 dated 30.12.2014 & 874-Edn(CS)/IC-63-L/2012 dated 28.10.2014.
 7. It may be pointed out that, The Executive Council of Indian Institute of Engineering Science and Technology, Shibpur adopted the Memorandum No. 874-Edn(CS)/IC-63-L/2012 dated 28.10.2014 regarding conferment of the status of Non-teaching Hostel/Mess employees and benefit of General Provident Fund and Pension to the Hostel/Mess employees for this Institute w.e.f. 01.02.2000 and re-designated the existing Mess employees as “ Non-teaching Mess Employees” of the Institute.
 8. It reveals from the record that only twenty two Hostel/Mess employees are now on roll. A list of Hostel /Mess employees as certified by the Chief Warden is enclosed.
 9. The above mentioned staff members are within the purview as per the Memorandum No.1068-Edn(CS)/IC-63-L/2012 dated 30.12.2014 & 874-Edn(CS)/IC-63-L/2012 dated 28.10.2014.
 10. Affidavit submitted by Professor A.C. Ganguly, Ex-Director(I/c)on behalf of NIT Durgapur on 19.04.2005.
Note:- Union of India did not file any affidavit before the Calcutta High Court.
 11. Order passed by Calcutta High Court (Single Bench) on 21.05.2010.
 12. *Note:- Hostel Mess Employees were declared as Group-D staff of the erstwhile Regional Engineering College by Hon'ble Justice MaharajSinha, J.*
 13. Appeal against original Judgment and order incapable of valuation.
 14. Affidavit was submitted by Prof. A. Gangopadhyay, Ex-Registrar(I/c) to Calcutta Higher(Division Bench) on 16.07.2011.
 15. Affidavit –in-opposition was submitted by Bijoy Krishna Das &Ors 18.08.2011
 16. Affidavit in reply was submitted by Professor A. Gangopadhyay, Ex- Reistrar on 21.09.2011
 17. A letter was sent to Mr. K. Rajan , Under Secretary, Gol, MHRD on 29.05.2017 regarding case history of Mess/Hostel employees, NIT Durgapur (erstwhile R.E. College) in connection with their claim as permanent employees of NIT Durgapur.
 18. Order passed by Calcutta High Court (Division Bench) on 09.06.2017. The appeal of In stitution in Division Bench was dismissed for non-prosecution.
 19. The restoration applications have been filed on the above mentioned cases on 02.02.2018 in Calcutta High Court.



NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR INDIA

GENERAL LEDGER
PAY AND ALLOWANCE - HOSTEL EMPLOYEES
From 01-04-2017 To 31-03-2018

Date	Voucher No	Voucher Type	Particulars	Narration	Debit	Credit	Balance	Dr/Cr
30-06-2017	984	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Pay and allowances for Hostel employees for the month of March2017.	467,194.00			
30-06-2017	985	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Pay and allowances for Hostel employees for the month of April2017.	467,194.00			
			Monthly Balance					
			Balance Upto 30-06-2017		934,388.00	.00	934,388.00	Dr
01-08-2017	1376	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to salary for the Hostel employees for the month of May2017.	467,194.00		934,388.00	Dr
29-08-2017	1675	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of June2017 for Hall-1 Rs. 42656/-, Hall-2 Rs. 63984/-, Hall-3 Rs. 85312/-, Hall-4 Rs. 63984/-, Hall-5 Rs. 127968/-, Hall -7 Rs. 83290/-.	467,194.00			
31-08-2017			Monthly Balance					
			Balance Upto 31-08-2017		934,388.00	.00	934,388.00	Dr
13-09-2017	1947	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of July2017.	481,283.00		1,868,776.00	Dr
13-09-2017	1948	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of August2017.	481,283.00			
14-09-2017	1979	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees arrear salary on implementation of CAS to Hall -1,2,3,4,5&7 vide order no. NITD/ Mess-Emp/CAS dated. 05.09.2017.	3,423,402.00			
30-09-2017			Monthly Balance					
			Balance Upto 30-09-2017		4,385,968.00	.00	4,385,968.00	Dr
20-10-2017	2293	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees Puja Bonus for the year 2017-18.	79,200.00		6,254,744.00	Dr
26-10-2017	2307	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of September2017.	598,969.00			
31-10-2017			Monthly Balance					
			Balance Upto 31-10-2017		678,169.00	.00	678,169.00	Dr
17-11-2017	2592	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of October2017.	598,969.00		6,932,913.00	Dr
30-11-2017			Monthly Balance					
			Balance Upto 30-11-2017		598,969.00	.00	598,969.00	Dr
21-12-2017	2899	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of November2017.	598,969.00		7,531,882.00	Dr
21-12-2017	2900	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees Puja Bonus for Biswanath Chatterjee.	2,100.00			
31-12-2017			Monthly Balance					
			Balance Upto 31-12-2017		601,069.00	.00	601,069.00	Dr
16-01-2018	3164	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel Employees Salary for the month of December2017.	598,969.00		8,132,951.00	Dr
31-01-2018			Monthly Balance					
			Balance Upto 31-01-2018		598,969.00	.00	598,969.00	Dr
13-02-2018	3425	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of January2018.	644,816.00		8,731,920.00	Dr
28-02-2018			Monthly Balance					
			Balance Upto 28-02-2018		644,816.00	.00	644,816.00	Dr
22-03-2018	3888	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees salary for the month of February2018.	644,816.00		9,376,736.00	Dr
31-03-2018			Monthly Balance					
			Balance Upto 31-03-2018		644,816.00	.00	644,816.00	Dr
			By Balance C/F		10,021,552.00	.00	10,021,552.00	Dr
			Grand Total		10,021,552.00	10,021,552.00		



NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR INDIA

GENERAL LEDGER
HOSTEL EMPLOYEES WELFARE A/C
From 01-04-2017 To 31-03-2018

Date	Voucher No	Voucher Type	Particulars	Narration	Debit	Credit	Balance	Dr/Cr
18-04-2017	126	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	paid to Hostel Employees welfare fund, RE College, Durgapur for contribution towards EPF of the Hostel employees for the month of March 2017.	60,906.00			
30-04-2017			Monthly Balance		60,906.00	.00	60,906.00	Dr
			Balance Upto 30-04-2017		60,906.00	.00	60,906.00	Dr
20-06-2017	883	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel employees welfare fund, R.E.College, Durgapur for epf contribution to Hostel employees for the month of April 2017 and May 2017 Rs. 60906/-, 59987/-.	120,893.00			
30-06-2017			Monthly Balance		120,893.00	.00	120,893.00	Dr
			Balance Upto 30-06-2017		181,799.00	.00	181,799.00	Dr
28-07-2017	1336	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel Employees welfare fund, RE College Durgapur for the month of June 2017.	59,987.00			
31-07-2017			Monthly Balance		59,987.00	.00	59,987.00	Dr
			Balance Upto 31-07-2017		241,786.00	.00	241,786.00	Dr
03-08-2017	1428	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	paid to Hostel Employees Welfare Fund for Gulam Paswan , hostel employees for final gratuity charges.	394,366.00			
03-08-2017	1429	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Paid to Hostel Employees Welfare Fund for Biswanath Chatterjee, Hostel employees for final gratuity Charges.	394,366.00			
03-08-2017	1430	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	paid to Hostel Employees Welfare Fund to Rajbir Balmik, hostel employees for final gratuity charges.	383,412.00			
17-08-2017	1566	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	paid to Hostel Employees Welfare Fund for Employers contribution towards EPF of Hostel and Mess Employees for the month of July 2017..	61,585.00			
31-08-2017			Monthly Balance		1,233,729.00	.00	1,233,729.00	Dr
			Balance Upto 31-08-2017		1,475,515.00	.00	1,475,515.00	Dr
06-12-2017	2790	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel Employees Welfare Fund, R.E.College, Durgapur for Employers contribution towards E.P.F. of Hostel and Mess Employees for the month of Aug, 2017 and September 2017.	138,059.00			
31-12-2017			Monthly Balance		138,059.00	.00	138,059.00	Dr
			Balance Upto 31-12-2017		1,613,574.00	.00	1,613,574.00	Dr
09-01-2018	3061	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel Employees welfare Fund, R. E. College Durgapur for the month of October 2017.	147,454.00			
31-01-2018			Monthly Balance		147,454.00	.00	147,454.00	Dr
			Balance Upto 31-01-2018		1,761,028.00	.00	1,761,028.00	Dr
23-02-2018	3513	BP	SBI A/C NO-11520034072 (NIT DGP SOCIETY) (NITD)	Transfer to Hostel Employees welfare Fund, R. E. College Durgapur for the month of January 2018.	158,734.00			
31-03-2018			Monthly Balance		158,734.00	.00	158,734.00	Dr
			Balance Upto 31-03-2018		1,919,762.00	.00	1,919,762.00	Dr
			By Balance C/F			1,919,762.00		
			Grand Total		1,919,762.00	1,919,762.00		

National Institute of Technology Durgapur

*A brief descriptive and phase wise projection of the
Project proposal for*

Utkarsha Bhavan

under HEFA

Preamble

The Institute is in urgent need of a centralized research facility to optimize the procurement and usage of high-valued sophisticated instruments for research. More synergy is needed for the common laboratory courses being offered by various departments to the students of different disciplines, including the first year students. The Institute has identified four cutting-edge areas to enhance collaborative research. Hence, it was decided to submit a proposal under HEFA to construct a G+10 building, to be named “***Utkarsha Bhavan***” which would house a central research facility, a central laboratory facility and four centres of advanced research. The complex will also provide service to other academic and research institutions and the industries and help generate internal resource through sponsored research and consultancy and testing. This will free up precious spaces in different academic departments as well.

The Institute submits a project proposal to set up “***Utkarsha Bhavan***” through loans from HEFA. A building and equipments for different centres have been included in the proposal.

Budget for *Utkarsha Bhavan* – year wise (Rs. in lakhs)

Sl. No	Facility	Year 1	Year 2	Year 3	Year 4	Total
1	Buildings					
1.1	Construction of a G+10 Storied Central Research & Academic Laboratory Building	1835	1835	1830	0	5500
	Sub-total (buildings)	1835	1835	1830	0	5500
2.	Equipments					
2.1	Central Research Facility (CRF)	125	185	290	1600	2200
2.2	Centralized Laboratory Facility (CLF)	0	0	0	400	400
2.3	Centre for Research on Environment and Water (CREW)	60	70	120	150	400
2.4	Centre for Biomedical Engineering & Assistive Technology (BEAT)	60	70	120	150	400
2.5	Centre for Advanced Research on Energy (CARE)	40	76	136	148	400
2.6	Centre of Excellence on IoT and Intelligent Systems (IoTIS)	60	70	120	150	400
	Sub-total (Equipments)	345	471	786	2598	4200
	Total	2180	2306	2616	2598	9700

1. Buildings

1.1 G+10 Central Research & Academic Laboratory Building (*Utkarsha Bhavan*):

The building will house Central Research Facility (CRF), Central Laboratory Facility (CLF) and four centres of advanced research. It will have 1000 m² floor space in each floor.

2. Equipments

2.1 Central Research Facility (CRF):

The proposed facility shall have five laboratories which will cater to the research needs of all the departments of the Institute. These include

- (i) Physical Characterization Facility
- (ii) Chemical Characterization Facility,
- (iii) Mechanical Characterization Facility
- (iv) High Performance Computing and Storage
- (v) Electrical and Electronics fabrication and characterization facility

2.2 Centralized Laboratory Facility (CLF):

The following laboratories will be included in Centralized Laboratory Facility:

- (i) Physics Lab
- (ii) Chemistry Lab
- (iii) Basic Electrical Engg. Lab
- (iv) Basic Analog and Digital Electronics Laboratory
- (v) Computation Lab
- (vi) Process Control Lab
- (vii) Communication Lab

2.3 Centre for Research on Environment and Water (CREW):

This Centre will bring together experts from various disciplines to focus on providing solutions to specific environmental problems and wastewater related problems including environmental health issues. A central research facility with 10 high-valued essential instruments shall be created to support research on environment and water and 20 specified projects are proposed to be taken up in these areas.

- (i) To tackle with the pollutants from Chemical Industries (Wastewater Treatment Technology)
- (ii) To tackle with the pollutants from Solid Waste:
- (iii) To tackle with the pollutants from Mining Industries:
- (iv) To tackle with the problems of waste contentment structure: Geo-environment:
- (v) Ground water decontamination
- (vi) Environmental Radioactivity:
- (vii) Human health hazard due to environment and water pollution:
- (viii) Air pollution monitoring and control technologies
- (ix) Bioremediation
- (x) Investigation on hot spring water for seismic surveillance and energy harvesting

2.4 Centre for Biomedical Engineering & Assistive Technology (BEAT):

The Centre will focus on Biomedical Engineering & Assistive cum Rehabilitation Technology to solve complex social and biomedical problems that are crucial to human welfare and society in general. This centre will be dedicated to interdisciplinary engineering education, research, training of paramedical and medical skills of personnel. The focus areas will be:

- (i) Biomaterials & Bio-fabrication
 - Development of innovative bio-compatible materials for bio-implants

- Additive Manufacturing or 3D printing for Bio-medical applications and bio-printing
 - (ii) Biomechanics and Biomechanical Engineering
 - Micro scale/ micro fluidic devices for sensing and biomedical applications.
 - Wireless monitoring of physiological variables
 - Detection of different Ocular neurodegenerative diseases by SiOx/TiO2 nanowire/screen printed electrode based immunosensor.
 - (iii) Biomedical Devices, Bio-Instrumentation & Bio-sensors
 - Design, Analysis and Development of Craniomaxillofacial (CMF) Implant Fixation Systems
 - (iv) Rehabilitation Engineering & Assistive Technology.
 - Design and development of robotic exoskeletons and orthotic devices for patients with neuromuscular and skeletal disabilities
 - Development of Visual Aid for assisting Hearing Impaired People
 - Design and Development of 3D Printed Braille to help Blind and Visually Impaired People
- Nine projects have been proposed to be taken up and 35 instruments shall be procured to set up the centre.

2.5 Centre for Advanced Research on Energy (CARE):

This centre will include advanced research infrastructure in the areas of solar, biofuel and other emerging power devices for sustainable energy applications and green buildings. Twenty six instruments will be procured and 7 projects shall be taken up.

- i. Solar/bio and Hybrid Energy Generation, Integration and Control
- ii. Development of near transparent $\text{In}_2\text{O}_3\text{-SiO}_2$ heterostructure nanowires (NWs) based broadband antireflection coatings for the front panel to increase the efficiency of existing solar cells
- iii. Integrated Bio-fuel production unit and its performance test under various percentage of bio-diesel
- iv. Emerging power devices for sustainable energy application
- v. Genetic Engineering of Microalgae for Development of Bio-Diesel
- vi. National Skill Development under *Suryamitra* training programme
- vii. Green building system

The centre will also organize training and skill development programs in related areas.

2.6 Centre of Excellence on IoT and Intelligent Systems (IoTIS):

The proposed centre of excellence (CoE) will create and mobilize common resources for fostering interdisciplinary research activities in the transition of the Internet from user-centric platform to things-centric enabler. The research activities will be broadly categorized under

- (i) Cloud based analytics over IoT data and IoT middleware for elastic cloud
- (ii) Exploring customized communication technology for IoT
- (iii) Application specific IoT subsystem design and development and AI based robotics

Thirteen projects shall be taken up in the following areas.

- i. IoT Cloud
- ii. IoT Middleware
- iii. IoT Network & Communication
- iv. IoT Applications
- v. Robotics and Intelligent Systems
- vi. Devices/Sensor and Security

The CoE will also offer advanced training and skill development courses for the industries and academia.

National Institute of Technology, Durgapur
Cash Flow Statement & Calculations of the Internal Rate of Return (IRR) for the Individual Proposal under HEFA (Rs in Crore)

TOTAL PROJECT																						
(UTKARSHA BHAI/AN)																						
IRR Calculations:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-21.8000	-23.0600	-26.1600	-25.9800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maintenance Cost per year (Cash Outflow in Cr) [B]		-0.5775	-0.6295	-1.0125	-1.1810	-1.1930	-1.1950	-1.3800	-1.4620	-1.4620	-1.4830	-1.4830	-1.4840	-1.5040	-1.5150	-1.5250	-1.5550	-1.5660	-1.5760	-1.5980	-1.6080	-1.6080
Total Cash Outflow (in Cr) [C=A+B]	-21.8000	-23.6375	-26.7895	-26.9925	-1.1810	-1.1930	-1.1950	-1.3800	-1.4620	-1.4620	-1.4830	-1.4830	-1.4840	-1.5040	-1.5150	-1.5250	-1.5550	-1.5660	-1.5760	-1.5980	-1.6080	-1.6080
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.6926	0.7990	0.9504	1.1636	1.2468	1.3144	1.3968	1.4693	1.5477	1.6173	1.7590	1.8633	2.0510	2.1530	2.2852	2.4136	2.5644	2.7387	2.8980	3.7837	36.7076
Net Cash Flow [C+D]	-21.8000	-22.9449	-25.9905	-26.0421	-0.0174	0.0538	0.1194	0.0168	0.0073	0.0857	0.1343	0.2760	0.3793	0.5470	0.6380	0.7602	0.8586	0.9984	1.1627	1.3000	2.1757	-87.2819
IRR of the Project =																						

INDIVIDUAL CENTERS

Over Life of the Project/Building																						
CRF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-1.2500	-2.9000	-16.0000																			
Maintenance Cost per year (Cash Outflow in Cr) [B]		-0.0155	-0.0165	-0.1350	-0.1350	-0.1350	-0.3100	-0.3900	-0.3900	-0.4100	-0.4100	-0.4100	-0.4200	-0.4200	-0.4200	-0.4400	-0.4400	-0.4400	-0.4400	-0.4500	-0.4500	
Total Cash Outflow (in Cr) [C=A+B]	-1.2500	-1.8655	-2.9135	-16.0165	-0.1350	-0.1350	-0.3100	-0.3900	-0.3900	-0.4100	-0.4100	-0.4100	-0.4200	-0.4200	-0.4200	-0.4400	-0.4400	-0.4400	-0.4400	-0.4500	-0.4500	
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.0101	0.0500	0.1500	0.2581	0.2994	0.3719	0.3456	0.3706	0.3972	0.4154	0.4955	0.5275	0.6518	0.7278	0.7701	0.8256	0.8946	0.9476	1.1699	10.3071	
Net Cash Flow [C+D]	-1.2500	-1.8554	-2.8635	-15.8665	0.1231	0.1644	0.1869	0.0356	-0.0194	0.0072	0.0054	0.0855	0.1175	0.2318	0.2584	0.3078	0.3301	0.3856	0.4546	0.4976	17.9434	
IRR of the Project =																						
CLF																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]																						
Maintenance Cost per year (Cash Outflow in Cr) [B]																						
Total Cash Outflow (in Cr) [C=A+B]																						
User Charges per year (Cash Inflow in Cr) [D]																						
Net Cash Flow [C+D]																						
IRR of the Project =																						
CREW																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-0.6000	-0.7000	-1.2000	-1.5000																		
Maintenance Cost per year (Cash Outflow in Cr) [B]		-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	
Total Cash Outflow (in Cr) [C=A+B]	-0.6000	-0.7600	-1.2600	-1.5600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	-0.0600	
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	
Net Cash Flow [C+D]	-0.6000	-0.5600	-1.0600	-1.3600	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	
IRR of the Project =																						
CARE																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-0.4000	-0.7600	-1.3600	-1.4800																		
Maintenance Cost per year (Cash Outflow in Cr) [B]		-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	
Total Cash Outflow (in Cr) [C=A+B]	-0.4000	-1.1600	-1.7600	-1.8800	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	-0.4000	
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.2400	0.2904	0.3194	0.3514	0.3865	0.4252	0.4677	0.5145	0.5659	0.6225	0.6847	0.7532	0.8285	0.9114	1.0025	1.1028	1.2131	1.3344	1.4678	13.7460	
Net Cash Flow [C+D]	0.0000	0.2400	0.2904	0.3194	0.3514	0.3865	0.4252	0.4677	0.5145	0.5659	0.6225	0.6847	0.7532	0.8285	0.9114	1.0025	1.1028	1.2131	1.3344	1.4678	13.7460	
IRR of the Project =																						

Net Cash Flow [C+D]	-0.4000	-0.9200	-1.4960	-1.5896	-0.0806	-0.0486	-0.0135	0.0252	0.0677	0.1145	0.1659	0.2225	0.2847	0.3532	0.4285	0.5114	0.6025	0.7028	0.8131	0.9344	1.0678	1.7460
IRR of the Project =	2.32%																					
BEAT																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-0.6000	-0.7000	-1.2000	-1.5000																		
Maintenance Cost per year (Cash Outflow in Cr) [B]	-0.1000	-0.1520	-0.2000	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300
Total Cash Outflow (in Cr) [C=A+B]	-0.6000	-0.8000	-1.3520	-1.7000	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300	-0.2300
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.2400	0.2800	0.3000	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560	0.3560
Net Cash Flow [C+D]	-0.6000	-0.5600	-1.0720	-1.4000	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260	0.1260
IRR of the Project =	-4.83%																					
IoTIS																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-0.6000	-0.7000	-1.2000	-1.5000																		
Maintenance Cost per year (Cash Outflow in Cr) [B]	0.0000	-0.0020	-0.0040	-0.0060	-0.0080	-0.0100	-0.0100	-0.0100	-0.0120	-0.0120	-0.0120	-0.0140	-0.0140	-0.0140	-0.0150	-0.0150	-0.0150	-0.0160	-0.0160	-0.0160	-0.0180	-0.0180
Total Cash Outflow (in Cr) [C=A+B]	-0.6000	-0.7020	-1.2040	-1.5060	-0.0080	-0.0100	-0.0100	-0.0100	-0.0120	-0.0120	-0.0120	-0.0140	-0.0140	-0.0140	-0.0150	-0.0150	-0.0150	-0.0160	-0.0160	-0.0160	-0.0180	-0.0180
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.0025	0.0050	0.0100	0.0300	0.0400	0.0500	0.0700	0.0750	0.0800	0.0850	0.0950	0.0950	0.0900	0.0900	0.0900	0.0850	0.0800	0.0750	0.0600	0.0500	0.0320
Net Cash Flow [C+D]	-0.6000	-0.6995	-1.1990	-1.4960	0.0240	0.0320	0.0400	0.0600	0.0630	0.0680	0.0670	0.0810	0.0760	0.0750	0.0750	0.0700	0.0640	0.0590	0.0500	0.0420	0.0320	0.0320
IRR of the Project =	-11.42%																					
G+10 BUILDING																						
IRR Calculations:																						
One Time Capital Investment on the Project (Cash Outflow in Cr) [A]	-18.3500	-18.3500	-18.3000	-18.3000																		
Maintenance Cost per year (Cash Outflow in Cr) [B]	-0.3300	-0.3300	-0.3300	-0.3400	-0.3400	-0.3400	-0.3400	-0.3500	-0.3500	-0.3500	-0.3500	-0.3600	-0.3600	-0.3700	-0.3700	-0.3800	-0.3900	-0.4000	-0.4100	-0.4200	-0.4300	-0.4300
Total Cash Outflow (in Cr) [C=A+B]	-18.3500	-18.3500	-18.3000	-18.3000	-0.3400	-0.3400	-0.3400	-0.3500	-0.3500	-0.3500	-0.3500	-0.3600	-0.3600	-0.3700	-0.3700	-0.3800	-0.3900	-0.4000	-0.4100	-0.4200	-0.4300	-0.4300
User Charges per year (Cash Inflow in Cr) [D]	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Net Cash Flow [C+D]	-18.3500	-18.3500	-18.3000	-18.3000	-0.3400	-0.3400	-0.3400	-0.3500	-0.3500	-0.3500	-0.3500	-0.3600	-0.3600	-0.3700	-0.3700	-0.3800	-0.3900	-0.4000	-0.4100	-0.4200	-0.4300	-0.4300
IRR of the Project =	-85.67%																					

ANNEXURE - V

Recommendation of the two member committee to examine the revision of tuition fee for 5 year Integrated M. Sc. program in Chemistry at NIT Durgapur

Ref: Office order no. NITD/Regis/Senate-OR/1014, dt. 08.02.2018

In reference to the above, members of the committee met on 03.03.2018 in the Department of Chemistry of NIT Durgapur and deliberated on the issue.

Members examined the current fee structure of Integrated M. Sc. program running at different NITs as well as Central Govt. funded Institutes.

Committee observed that similar types of courses are being run by Institutes like NIT Rourkela, NIT Agartala, NIT Patna as well as IISER Kolkata.

Among these, tuition fee for Integrated M. Sc. program in NIT Rourkela, NIT Agartala and BS-MS program in IISER Kolkata is Rs. 7500/- per semester, which is at par with the tuition fee for 2 year M. Sc. program prevailing at NIT Durgapur.

Considering all these aspects, committee recommends the following:

Tuition fee for 5 year Integrated M. Sc. program in Chemistry at NIT Durgapur may be fixed at Rs. 7500/- per semester (Rs. 15000/- per annum). This will remove disparity in tuition fees between existing 2 year M. Sc. program and newly introduced 5 year Integrated M. Sc. program.

Committee feels that prescribed fee structure will encourage students to opt for higher studies in basic sciences at NIT Durgapur.



Prof. Nitin Kumar Chattopadhyay
Professor, Department of Chemistry
Jadavpur University
Kolkata 700 032



Prof. Amit Basak
Professor, Department of Chemistry
IIT Kharagpur
Kharagpur - 721 302

ERP SOFTWARE COMPARISON

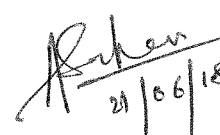

COMPARISON PARAMETERS	IIT KHARAGPUR	IIT ROORKEE	IIT DELHI
MODULES			
1. Academic Module	✓	✓	✓
2. Establishment Module	✓	✓ (Excluding Smart Card Management)	✓ (Not integrated yet)
3. Estate Module	✓	✓	✓
4. Standard Accounts Module	✓	✓	✓
5. Hostel Management Module	✓	✓	✓
6. Project and Consultancy Module	✓	✓	✓
7. Central Store Module	✓	✓	✓
8. Maintenance Module	✓	✓ (Excluding Emergency Notification facility)	✓
TECHNICAL			
1. Single-Sign-On based authentication	✓	✓	✓
2. Workflow based processing	✓	✓	✓
3. Multi-tenant payment gateway	✓	✓	✓
4. Maximum no of user support	✓	✓	✓
5. System Administration	✓	✓	✓
• Hyper Text Transfer Protocol (Secure)	✓	✓	✓
• Load Balanced architecture	✓	✓	✓
• Centralized Server Monitoring	✓	✓	✓
6. Back up & recovery option	✓	✓	✓
PROJECTED EXPENDITURE			
1. Deployment Cost (INR) (One-Time, Non-Recurring)	Approx. 1.70 Cr. (INCLUDING Hardware Infrastructure)	31 Cr. (full project cost) for the period of 7 years	Approx. 3 Cr. (Excluding Hardware Infrastructure)
2. Post deployment recurring cost (INR) per year and Per User License Fee (If any)	Approx 42 Lacs per annum (Including manpower cost and applicable consultancy charges, overhead etc.) <i>License Fee per user is NOT required</i>	SAP license is approx. 52 Lacs per annum (13 Lacs per quarter) excluding manpower cost <i>License Fee per user is APPLICABLE</i>	Approx. 50 Lacs per annum <i>License Fee per user is NOT required</i>

कुलसचिव (प्रभारी) / Registrar (I/C)

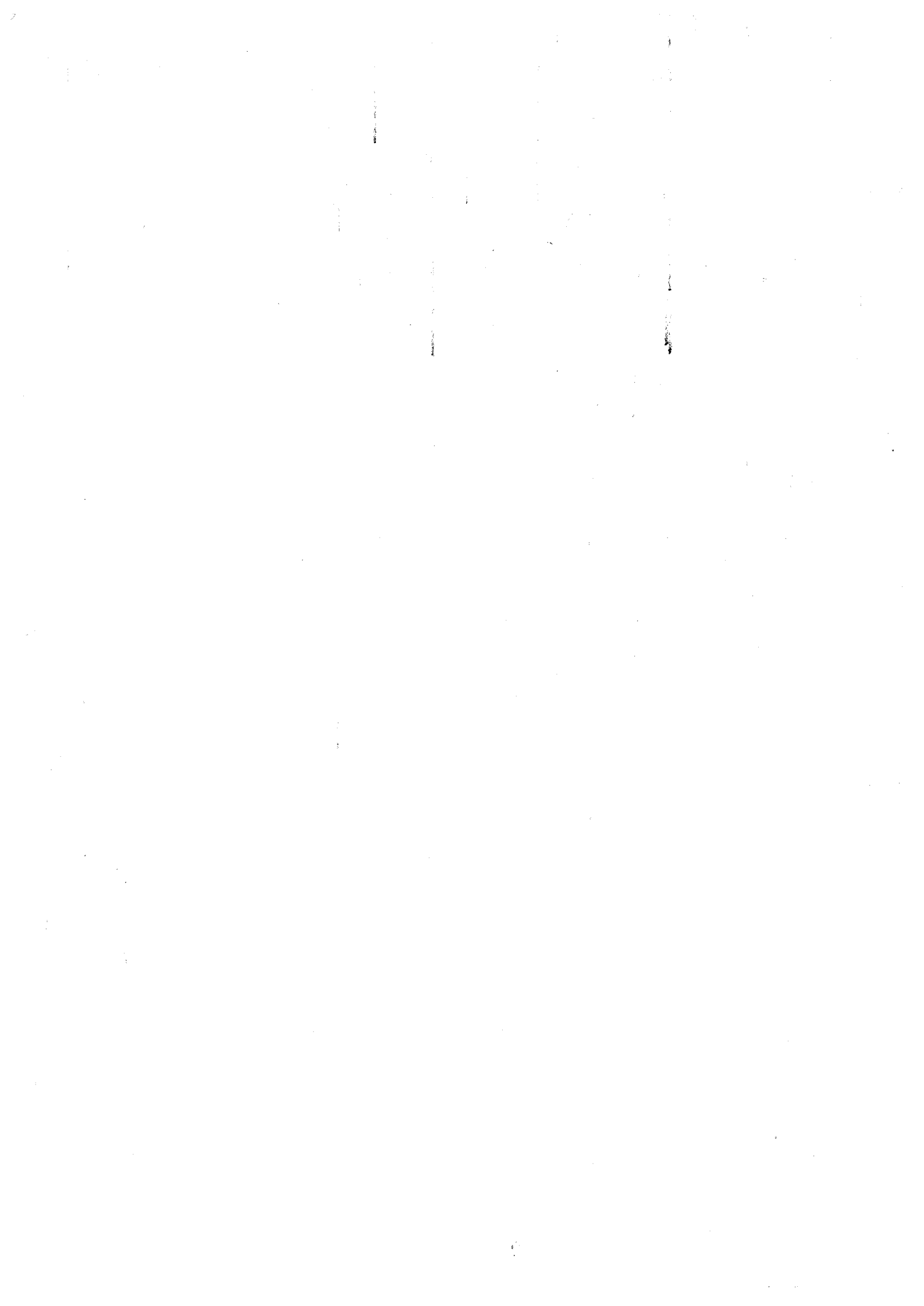
राष्ट्रीय प्रौद्योगिकी संस्थान / National Institute of Technology
महात्मा गांधी एवेन्यू / Mahatma Gandhi Avenue

दुर्गापुर-713209 (प.ब.) भारत

Durgapur-713209 (W.B.) India

 21/06/18
 21/06/2018

(21)



ERP SOFTWARE COMPARISON

COMPARISON PARAMETERS	IIT KHARAGPUR	IIT ROORKEE	IIT DELHI
MODULES			
1. Academic Module	✓	✓	✓
2. Establishment Module	✓	✓ (Excluding Smart Card Management)	✓ (Not integrated yet)
3. Estate Module	✓	✓	✓
4. Standard Accounts Module	✓	✓	✓
5. Hostel Management Module	✓	✓	✓
6. Project and Consultancy Module	✓	✓	✓
7. Central Store Module	✓	✓	✓
8. Maintenance Module	✓	✓ (Excluding Emergency Notification facility)	✓
TECHNICAL			
1. Single-Sign-On based authentication	✓	✓	✓
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• Load Balanced architecture	✓	✓	✓
• Centralized Server Monitoring	✓	✓	✓
6. Back up & recovery option	✓	✓	✓
PROJECTED EXPENDITURE			
1. Deployment Cost (INR) (One-Time, Non-Recurring)	Approx. 1.70 Cr. (INCLUDING Hardware Infrastructure)	31 Cr. (full project cost) for the period of 7 years	Approx. 3 Cr. (Excluding Hardware Infrastructure)
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कुलसचिव (प्रभारी) / Registrar (I/C)

राष्ट्रीय प्रौद्योगिकी संस्थान / National Institute of Technology
महात्मा गांधी एवेन्यू / Mahatma Gandhi Avenue

21/06/18

(21)

21/06/18
21/06/2018

①

**NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR.
DURGAPUR-713209, WEST BENGAL, INDIA**

AGENDA NOTES

FOR

The 45th meeting of the Finance Committee of NIT Durgapur is scheduled to be held on 2nd July, 2018 from 10 : 30 A.M at Kolkata Guest house, I.I.T Kharagpur Kolkata Campus, HC Block, Sector – III, Salt Lake City, Kolkata- 700106.

Item # 45.11. Any other item with the permission of the chair


The Ministry of Human Resource Development (MHRD)/NPIU has given emphasis on converting all TEQIP-III institutions into a new dimension of Digital Campus through a modern state-of-art Wi-Fi facility.

In this context, National Project Implementation Unit (NPIU) has empanelled M/S Reliance Jio Infocomm Ltd. for providing Wi-Fi Internet connectivity to students, faculty and staff from TEQIP-III institutions as an individual user. The plan called as “TEQIP-III Wi-Fi plan” shall include Internet Data of 30 GB/User/Month on FUP basis of 1 GB per day at the cost of Rs 100.00 per month (+ 18% Tax). The necessary infrastructure will be built by the service provider at their own cost.

With about 4500 students residing in the campus, the total user charge will be about Rs63,72,000 per annum. It may be noted that Rs 2000 is collected per student per annum as “Computing fees” (Rs. 90,00,000 per annum). It is proposed that the Institute subscribes to the “TEQIP-III Wi-Fi plan” for the students and the expenditure be made from the above head after renaming it as “Computing and Internet fees”.

Placed before the Finance Committee for consideration.

Annexure VII


Shri U.C. Mukherjee
Registrar (I/C) & Member Secretary,
Finance Committee
National Institute of Technology, Durgapur



NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR – 713209.
IT INFRASTRUCTURE AND SERVICES COMMITTEE

ANNEXURE - VII

21st June 2018

Note Sheet

With reference to the NPIU-MHRD email dated 7th Jun 2018, emphasizing TEQIP-III Wi-Fi plan, the ITIS had a detailed discussion in this regard.

The plan costs Rs.100 + tax per user, with limit of 1GB, thereafter 128kbps speed. The amount in excess of Rs.100 + tax per month would be paid by the user directly to the service provider. The payment Rs.100 + tax per user shall be made by TEQIP-III fund as per the terms and conditions.

The ITIS recommends the plan for student hostels in the first phase.

[Signature]
Chairman
21/6/18

[Signature]
Converter
21/06/2018

To

The Director,
NIT Durgapur.

[Signature]
Chairman (CEC)
21/06/18

Encl.: Copy of the email received

TEQIP III fund for procurement head has been planned ~~for~~ and said purpose may be looked into through computing fee of the student.

[Signature]
29/6/18

[Signature]
22/6/18
To be placed
in the BOG (45th)

③

Subject: Fwd: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Wi-Fi Services /Facility in the Project Institution under TEQIP-III

From: anupambas@gmail.com

To: parthagupta2000@yahoo.com; kcghanta@yahoo.com

Date: Thursday, 7 June, 2018, 9:35:29 PM IST

Let us discuss once

অনুপম বসু

Anupam Basu

Director

National Institute of Technology, Durgapur

&

Professor (on-lien)

Dept. of Computer Science & Engineering (CSE)

IIT Kharagpur 721302

----- Forwarded message -----

From: **Director NIT Durgapur** <director@admin.nitdgp.ac.in>

Date: Thu, Jun 7, 2018 at 8:19 PM

Subject: Fwd: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Wi-Fi Services /Facility in the Project Institution under TEQIP-III

To: "Anupam Basu (অনুপম বসু)" <anupambas@gmail.com>, KARTIK GHANTA <kartikghanta@gmail.com>

----- Forwarded message -----

From: **NPIU MHRD** <npiu-mhrd@gov.in>

Date: Thu, Jun 7, 2018 at 7:15 PM

Subject: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Wi-Fi Services /Facility in the Project Institution under TEQIP-III

To: director@nitt.edu, director@nits.ac.in, director@nitp.ac.in, director.iiests@gmail.com, director@nitrkl.ac.in, director@nitrr.ac.in, director@nitw.ac.in, director@admin.nitdgp.ac.in, mmsbeg@cs.berkeley.edu, director@nitc.ac.in, director@vnit.ac.in, director@nitj.ac.in, director@mnit.ac.in, director@mnnit.ac.in, director@svnit.ac.in, director@manit.ac.in, dt@iitism.ac.in, principal.cea@jntua.ac.in, principal_intucek@yahoo.com, principal_svuce2003@yahoo.co.in, auceapincipal@gmail.com, vc_gju@yahoo.co.in, vc@ymcaust.ac.in, vc@dcrustm.org, pg_tewari@bvb.edu, principal@bmsce.ac.in, principalpda@yahoo.com, becprincipal@yahoo.com, principal@nie.ac.in, venusridhar@yahoo.com, swamy_vtu@yahoo.com, principal_soe@cusat.ac.in, director@ictmumbai.edu.in, director.walchand@gmail.com, principalgeca@yahoo.com, director@coep.ac.in, principal@spce.ac.in, directorvjti@vjti.org.in, registrar@nmu.ac.in, director@sggs.ac.in, principal@gcekarad.ac.in, jaysbagi@gmail.com, vcdu@dce.edu, s_rajakumar59@yahoo.co.in, principal@cit.edu.in, principal@tce.edu, principal@psgtech.ac.in, principal.teqip@gcesalem.edu.in, principal@gct.ac.in, principal@jntuceh.ac.in, vsskumar1958@hotmail.com, jayashreeanireddy@gmail.com, director@pec.ac.in, directoruiet@pu.ac.in, savita2k8@yahoo.com, principal@pec.edu, registrar@caluniv.ac.in, c.bhatta@gmail.com, vc@wbut.ac.in, principal@bvmengineering.ac.in, directoruietkuk@gmail.com, principal@mcehassan.ac.in, principal@sjce.ac.in, director-nitjsr@rediffmail.com, director@nitkr.ac.in, sanchita@pu.ac.in, dcet@pu.ac.in, deance@hijli.iitkgp.ernet.in, hoccet@iitg.ernet.in, director@sliet.ac.in, princobj@rediffmail.com, principal503@gmail.com

Dear Sir/Madam,

The Ministry of Human Resource Development (MHRD)/NPIU has given emphasis on converting all TEQIP-III institutions into a new dimension of Digital Campus through a modern state-of-art Wi-Fi facility. This drive will enable the students & faculty of those institutions where uninterrupted connectivity is a major concern, to access educational contents in technical studies.

In this context, National Project Implementation Unit (NPIU) has empanelled M/S Reliance Jio Infocomm Ltd. for providing Wi-Fi Internet connectivity to students, faculty and staff from TEQIP-III institutions as an individual user. The plan called as “TEQIP-III Wi-Fi plan” shall be:

Internet Data of 30 GB/User/Month on FUP basis of 1 GB per day at the Cost of Rs 100.00 per month (Exclusive Tax)

The ToR for the said activity is attached as Annex-I. The contract agreement shall be signed between the Institutes & the Service Provider and payment to the vendor shall be done by institutes through the fund allocated under TEQIP-III. However, if the usage exhausts the limit of 1 GB, the fall down speed of 128 kbps shall be available to the users. Interested institutes may contact to the service provider i.e. Reliance Jio Infocomm Ltd on below mentioned contact details:

Name of the Firm	Contact Person & Phone No.	Address
M/s Reliance Jio Infocomm Limited	Mr. R V Balasubramaniam Iyer, Vice President Direct : +91-22-447 57850 Mobile : +91-9967049636 Email : bala.iyer@ril.com Mr. Rajat Goel, DGM Mobile : 9871555324, Email : rajat.goel@ril.com	Reliance Jio Infocomm Limited 9th Floor, Maker Chambers IV, 222, Nariman Point, Mumbai – 400021

In order to facilitate the focus state institutions and for the simplification of the process at institute level, the standard format of PO/Agreement is also attached for ready reference as Annex-II.

Procurement of aforementioned activity is to be initiated in PMSS under **Services** as a single source selection and package name should start with NPIU so as to identify the said activity.

Interested institutes are requested to proceed further for engaging the empanelled service provider as per Terms of Reference (ToR) enclosed herewith. In case of any clarification, please feel free to contact SPIU/ Procurement section of NPIU/ Mentor consultant.

Regards,

Prof (Dr) P M Khodke

Central Project Advisor

National Project Implementation Unit (NPIU)

Copia Corporate Suites, 301-302, 3rd Floor,

Plot No - 9

Jasola Vihar New Delhi - 110025

Phone No.011-26941026 (D)

EPABX Nos 011-26941003,04,06,08,09,2 9

Fax Nos. : 011-26941012, 26941014

Email : npiu-mhrd@gov.in

Web : www.npiu.nic.in



Annex-I.docx
15.8kB



Annex-II.doc
95.6kB

Responsibility of SPs

The SP shall be responsible for the following:

- ✓ To provide Wi-Fi Services that support the centralized provisioning, monitoring and enforcing the policies for the subscribers with associated 24x7 monitoring of the network infrastructure on end-to-end basis covering access, backhaul and internet gateway facilities
- ✓ Conducting the site survey, design, build-own-operate and manage state-of-the-art carrier grade Wi-Fi Services at the Institution Campus, meeting the optimal coverage and adequate capacity to serve the data download requirements of the students, teaching and non-teaching staff at the campus.
- ✓ Deploying network equipment which shall have carrier grade features such as high availability, high reliability, multiple redundancy levels, low maintenance and low MTTR.
- ✓ Setting up of network inside the college, which would consist of optical fiber (minimum 1pairs), Access switches, Wireless Access Points, Security Equipment (UTM and Firewall) etc. meeting the cost from his own resources. The fiber should also be made available to the Institute free of cost for running the campus LAN as mentioned in TORs.

Minimum Service Standards:

The SPs shall maintain the following service standards:

- ✓ The SP should offer free data download of 30 GB/User/Month on FUP basis of 1 GB per day with the fall down speed of 128 Kbps per month per user (students and faculty), in the University/ Institute/ College for the entire period of this arrangement.
- ✓ The data speed should not be less than 4 Mbps.
- ✓ The Broadband bandwidth of backhaul provided to the institution should not be less than 1Gbps.
- ✓ The number of Wi-Fi Access points provided in the campus should not to less than one Access Point for every 10 users (students/faculty)
- ✓ Wi-Fi Service shall be available at the hotspots selected by the Institution.
- ✓ Each user shall be allowed a minimum of two User ids & Password (Laptop/ Smartphone) concurrently.
- ✓ The broadband network of the SP should be interconnected to the National Knowledge Network (NKN) at their own cost, so that access to the Educational Resources connected to NKN is available to all users from the colleges.

(c) Condition of provision of service:

- ✓ The SP would not have any exclusivity to provide service in the University/ Institute/ College.
- ✓ The Wi-Fi service should be provided in the Institutions within 16 weeks of placement of purchase order.
- ✓ The SP is free to offer any other service which is permitted under their licence.
- ✓ The users would be free to select the service and tariff package of their choice.
- ✓ The SP would be responsible for maintaining the user and other records as required under the Law/ Regulations.
- ✓ The SP shall comply with all mandatory Government of India Regulations and Security Guidelines to provide information on Wi-Fi sessions upon such request to Law Enforcement Agency (LEA).

(d) Role of the Institution:

- ✓ The Institution would provide space and give permissions for laying the fibre, installing the switches, UPS etc. free of cost. The college would provide electricity for operating the equipment.
- ✓ Provide data about the users (students/ faculty/ admin staff) for the purpose of giving access to Wi-Fi.

(e) Payment Plan

- ✓ The Institution would indicate the total number of users (students+faculty+admn) in the campus.
- ✓ An amount of Rs.100 per user per month would be paid by the institution at the end of every month provided the service offered is satisfactory.
- ✓ The users are free to opt for the package of their choice for the broadband service.
- ✓ Any amount in excess of Rs.100 per month would be paid by the user directly to the service provider.



TERMS AND CONDITIONS THAT ARE TO BE PART OF THE PURCHASE ORDER/CONTRACT WITH M/s Reliance Jio Infocomm

M/s Reliance Jio Infocomm Limited has been appointed as the Service Provider (SP) vide NPIU letter no.....dated..... for providing Campus Wi-Fi facility in the TEQIP-III institutions through OPEX model.

The campus Wi-Fi facility/services may be provided as per the following terms and conditions.

1. General Information to be provided by the Institute along with the PO

- a) Name of the Institute
- b) Number of students
- c) Number of faculty
- d) Number of institutes staff who would use the service
- e) Total number of users (b + c + d)
- f) Total number of buildings where Wi-Fi coverage is to be provided along with list and layouts of building
- g) Number of students in hostels
- h) Nodal officer from Institute for project implementation

2. General conditions

- a) The work would involve site survey, design, installation and maintenance of state-of-the-art carrier grade Wi-Fi network in the campus. Setting up of network inside the college, which would consist of optical fiber (minimum 1pairs), Access switches, Wireless Access Points, Security Equipment (UTM and Firewall) etc. meeting the cost from his own resources. The fiber should also be made available to the Institute free of cost for running the campus LAN as mentioned in TORs.
- b) The Wi-Fi facility should be provided in the Institute within 16 Weeks from the date of issue of Purchase Order.
- c) The SP would earmark a dedicated team for implementing the network under a Nodal officer and convey the contact details of the Nodal officer to the Institute, within 7 days from the date of issue of the Order.
- d) The site survey should be completed and a report along with the detailed diagram of the proposed carrier grade network that would be deployed, giving details (make, model no.) of all the equipment should be submitted to the institute within 4 weeks from the date of issue of the Purchase Order.

3. Service levels:

- a) **Coverage:** The Wi-Fi services shall be covered in all 'hot spots' which shall include all academic, administrative blocks, labs, libraries, hostels, canteens and any such areas which are frequented by the students. There should be both indoor and outdoor coverage in areas where there are high footfalls. The number of Wi-Fi Access points provided in the campus should not to less than one Access Point for every 10 users. The Wi-Fi network should be suitably augmented for increase in the users, if any, to maintain the quality of service
- b) **Unlimited data usage:** There shall be limit of 1GB per day per user on the data downloads/uploads. Each user shall be allowed to log-in two devices (laptop and mobile) through two user ids. However, there can be a Fair Usage Policy (FUP) i.e. after a specified data download, the data speed can be reduced.
- c) **Data speeds:** The data speed during FUP should not be less than 4Mbps; and after FUP should not be less than 128 Kbps.
- d) **Installation and maintenance:** The entire capital for providing the campus Wi-Fi service has to be invested by the Service Provider (SP). The maintenance of the system shall be the responsibility of the SP.
- e) **Authorization, authentication, security, monitoring and report generation:** The Authorization,

authentication and maintenance of users should be implemented separately for each Institute as specified by each Institute. In this regard, Institute will provide the user data. Provision should be there to generate performance reports Institute wise, monitor usage in case of FUP, enrolling users etc.

f) **Compliance to International standards:** The offered Wi-Fi equipment at the Core NW and at the campus shall be state-of-the-art, carrier grade equipment conforming to relevant international, IEEE and ITU-T standards.

g) **Portal:** The SP shall create a portal and provide read-only access for viewing Wi-Fi usage statistics to authorized personnel at the Institute.

h) **Network Management System (NMS):** There should a centralized NMS to monitor the performance of the network on 24*7 basis. The Institute should be given access to the NMS required for operations of the network. The Institute staff should be trained to use the NMS.

i) **Help Desk:** SP shall have a 24*7 Call Center for dealing with user requests/complaints related to Wi-Fi services.

j) **Downtime:** The maximum unscheduled downtime of the system shall be 15 minutes in a day. In case of scheduled maintenance, the same shall be intimated in advance to the institution and downtime in such cases shall not be more than 48 hours in 6 months. The downtime shall be calculated on monthly basis.

4. Service charges

a) The service charges shall be Rs. 100 per month per user exclusive of all taxes.

b) The actual users shall include the total number of existing students, faculty and staff in the Institute.

c) The service charges shall be paid to the SP before 15th of every month. NPIU will coordinate timely payment and redressal of service related complaints from Reliance Jio.

d) The Service charges shall be payable from the date of successful commissioning of the Wi-Fi network in the Institute.

e) The services charges cannot be increased for a period of 5 years from the date of commissioning.

5. Responsibilities of the Institute

a) The Institute would permit the SP to install the equipment necessary for providing the campus Wi-Fi service within the campus.

b) The installed equipment would be provided with security like any other Institute equipment.

c) The Institute shall facilitate Right of Way (RoW) permissions within the campus for laying of cables without any charges to Service Provider. However, SP would be responsible for reinstating the surface at their own cost.

d) The required electricity for operating the equipment within the campus, from the local electricity authority, would be provided by the Institute without any charges to Service Provider. UPS wherever required would have to be installed by the SP.

e) Institute will provide sufficient number of IP addresses to the SP.

f) Institute will nominate a Nodal officer along with a link officer who would stand in during absence of nodal officer.

g) Rent free Space / Room for storing the Inventory during project phase. Rent free space for sitting space for Technical staff deployed for operations and storage of spare and other equipment.

h) SP would be allowed to put Physical branding of Reliance Jio mentioning "Availability of Wi-Fi" for creating awareness.

6. Commissioning of the Wi-Fi Services Network:

- a) After successful commissioning of the Wi-Fi service network, the SP shall submit to the Institute a completion report with detailed Wi-Fi service network diagram, equipment location, equipment details like make, model etc.
- b) Partial commissioning of the Wi-Fi service network within the Institute is not acceptable.
- c) On receiving the completion report, the Nodal officer shall verify the Wi-Fi network details and performance and give the acceptance to the SP in accordance to coverage objective agreed in survey report. In case of any shortcomings, it should be conveyed by the Nodal office in writing to the SP within 7 working days of submission of completion report by the SP else it will be deemed accepted.
- d) The date for start of the billing cycle is the date of acceptance of the Wi-Fi service network by the Institute.
- e) If the date of acceptance of the Wi-Fi network is during the middle of the month, then the first payment would be for the remaining days in the month. Subsequently the billing would be monthly from 1st of every month.
- f) SP should provide the name and details (mobile number, email) of implementing team to the Institute.

7. Penalties:

In case of failure of the SP for providing the service in the manner specified above, the institution can levy a penalty not exceeding 5% of the monthly service charges payable for the coming month. In case of continuing failure to maintain the service levels, the Institute can cancel the contract after giving adequate opportunity to the SP to explain the failures.

8. Termination of contract:

In case of continuing failure to maintain the service levels, the Institute can terminate the contract after giving adequate opportunity to the SP to explain the failure and rectify the failure within a maximum period of one month.

9. Force Majeure

Neither party shall be liable to the other for any delay or failure in performing its obligations under the Order to the extent that such delay or failure is caused by a Force Majeure event. *Force Majeure* Events include, but are not limited to, acts of God or the public enemy, government restrictions, floods, fire, earthquakes, explosion, epidemic, war, invasion, terrorist acts, riots, strike, or embargoes. SP's economic hardship or changes in market conditions are not considered *Force Majeure* Events. SP shall use all diligent efforts to end the failure or delay of its performance, ensure that the effects of any *Force Majeure* Event are minimized and resume performance under the Order.

10. Resolution of Disputes:

Any dispute arising out of the Contract, which cannot be amicably settled between the parties, shall be referred to adjudication/arbitration in accordance with the laws of the India.

11. Law Governing Contract: The Parties and this agreement shall be governed by the laws of India

