

**Agenda Notes for
36th Meeting of the Building and Works Committee
National Institute of Technology, Durgapur**

Date: Monday, August 26, 2019
Time 3.00 p.m.
Venue NIT Durgapur

Index

Item No.	Subject	Page No.
36.1	To confirm the minutes of the 35 th meeting of Building and Works Committee (B & WC) held on June 18, 2019(Tuesday) at CSIR – CGCRI Guest House, Opposite Buddha Mandir, Dhakuria Lake, Kolkata	1
36.2	To note down the action taken on items resolved in 35 th Meeting of the B&WC Meetings held on June 18, 2019	1
36.3	Progress of Various Ongoing Projects	1
36.4	Construction of EE Measurement Laboratory	2
36.5	Air Conditioning of New Academic Block	2
36.6	The revised architectural plan of UtkarshBhavan (under HEFA)	2
36.7	Any other matter with the permission of the chair	

Chairman, Building and Works committee, National Institute of Technology Durgapur welcomes the members and special invitees to the 36th Meeting of the Building and Works Committee.

Item No. 36.1 To confirm the minutes of the 35th meeting of Building and Works Committee (B&WC) held on June 18, 2019 (Tuesday) at CSIR-CGCRI Guest House, Opposite Buddha Mandir, Dhakuria Lake, Kolkata

The minute was sent to all members. [Annexure 36.1(pp.A1-3 to 9).]

Item No. 36.2 To note down the action taken on items resolved in the 35th Meeting of the B&WC held on June 18, 2019

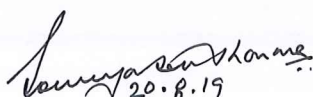
Item No.	Item	Action Taken
35.1	Confirmation of the minutes of the 34 th Meeting of the B&WC	Noted.

The other items of 35th Meeting of B&WC will be reported in the next meeting of B&WC due to shortage of time after the medical exigencies of Prof. K. Bhattacharya, Dean (P&D), and subsequent official restructuring of the Office of Dean (P&D).

Item No. 36.3 Progress of Various Ongoing Projects

The comparative statement as of July 2019 is attached (MRP, Annexure – 36.2, pp. A1 10-15). It is noted that the physical progress of many projects during June-July 2019 is nominal.

There are a few projects, namely 1250 Boys' Hostel, Under Ground Sewer Line, Boundary Wall, Concrete and Flexible Pavement, etc. that are almost completed; however, CPWD is unable to hand them over to NIT Durgapur.


20.8.19

Item No. Construction of EE Measurement Laboratory
36.4

The existing single storey laboratory has the provision for accommodating another storey having area of 21m x 15m. A frame structure has been planned with brick wall having a structural shed at top.

CPWD has submitted a P.E. of Rs. 1,61,68,000/- [Annexure 36.3, pp A1 -]¹⁶⁻²² for the work.

Placed for approval.

Item No. Air Conditioning of New Academic Block (NAB)
36.5

There are 300, 150, 90 & 60 seater seminar rooms & class rooms in the NAB. Rooms are mostly utilized for classes, seminars, workshops, training & placement and examination purposes. The rooms need air-conditioning as all works get hampered during the summer season because of extreme heat & humidity. This has also been corroborated by Mr. D.S. Sachdev & Mr. A.K. Jain, Members of PMU, MHRD during their visit of the Institute on 28th & 29th of June, 2019 and in the subsequent meeting with the Institute Authority.

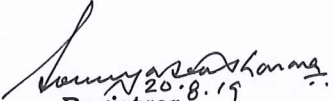
CPWD has submitted a P.E. of Rs. 3,99,53,000/- [Annexure 36.4, pp A1 -]²²⁻²⁹ for the work. The fund for the above may be utilized from the originally sanctioned amount for NAB.

Placed for approval.

Item No. The revised architectural plan of Utkarsha Bhavan
36.6

The revised architectural plan of Utkarsha Bhavan including central air-conditioning as per discussion with Director & members of PMU, MHRD, Mr. D.S. Sachdev & Mr. A. K. Jain (during their visit to the Institute on 28th & 29th of June, 2019), and subsequently submitted by CPWD, is placed for necessary approval.

Item No. Any other matter with the permission of the chair
36.7


Registrar
20.8.19


DIRECTOR

MINUTES OF
35th Meeting of Building and Works Committee,
National Institute of Technology, Durgapur

Held on 18th June, 2019 (Tuesday) at 1.00 pm
At CSIR-CGCRI Guest House, Opposite Buddha Mandir,
Dhakuria, Kolkata

Members Present:

1. Prof. Anupam Basu,
Director
National Institute of Technology, Durgapur - 713209
2. Shri Satyaki Sen
Ex. Director, M.N. Dastur and Nominee of BOG, NIT Durgapur
CJ 84, Sector-2, Salt Lake City
Kolkata - 700091
3. Shri C.P. Sharma
(Nominee of CPWD, Civil & Electrical Wing)
Superintending Engineer (Electrical)
NIT Durgapur Unit
4. Prof. Kamal Bhattacharya
Professor, Department of Civil Engineering of CE Department and Dean
(P&D)
National Institute of Technology, Durgapur - 713209
5. Shri Soumya Sen Sharma
Registrar
National Institute of Technology, Durgapur - 713209

The invitation letter and the Agenda Notes were sent to members by June 13, 2019. However, the Representative of MHRD New Delhi, instead of attending had communicated their comments which have been incorporated.

The following Special Invitee Members were also attended the meeting

1. Prof. S. Bhattacharyya
Professor, Department of Civil Engineering
and Chairman Handing/Taking over Committee
National Institute of Technology, Durgapur - 713209
2. Prof. N. K. Roy
Professor of EE Department and Convener, Electrical Works
National Institute of Technology, Durgapur - 713209
3. Dr. A. K. Banik
Associate Professor, Department of Civil Engineering and
Associate Dean (P & D) with Convener of Civil Works
National Institute of Technology, Durgapur - 713209
4. Prof. Showmen Saha
Professor, Department of Civil Engineering
and Professor-in-Charge of Maintenance Section
National Institute of Technology, Durgapur - 713209
5. Shri Manish Kanodia
Executive Engineer, CPWD
NIT Campus
Durgapur - 713209

The invitation was also sent to Dr. Anirban Sarkar, Head, Computer Center, National Institute of Technology, Durgapur as an Invitee Member but he could not attend the meeting due to pre-engagement.

At the beginning of the 35th Meeting of the Building and Works Committee (B&WC), the Director, National Institute of Technology Durgapur and Chairman, B&WC welcomed the members and special invitees to the 35th Meeting of the B&WC and conveyed thanks to all for their interest in the Infrastructural Development Programme of the Institute.

Item No.	Item	Resolution
Item No. 35.1	To confirm the minutes of the 34 th Meeting of Building and Works Committee (B & WC) held on October 6 th 2018 (Saturday) At Kolkata Extension Centre, IIT Kharagpur, BLOCK-HC, SECTOR-III, Salt Lake, Kolkata – 700106	Confirmed
Item No. 35.2	To note down the action taken on items resolved in 34 th Meeting of Building and Works Committee (B & WC) held on October 6 th 2018 (Saturday).	

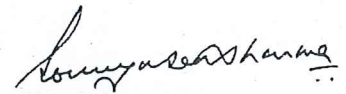
Item No.	Item	Resolution
34.1	Confirmation of 33 rd Meeting of the B&WC	Noted.
34.2	#33.2/...../29.3 Lifts of 740 Boys' Hostel: Members expressed their dissatisfaction over the report of frequent malfunctioning of the lifts installed in 740 Boys' Hostel and stressed on quick response by the company for addressing the faults once being reported.	The Superintending Engineer, CPWD assured that the 5 th Lift will be handed over by 30 th June, 2019. Regarding the services provided by all Service Providers it is resolved that: 1. The selection of man-power of all services should be on Interview basis. 2. The Integrity, sincerity and efficiency of services rendered by any personnel is to be monitored by the Heads of the concerned departments and sections as well as Hostel wardens under whom the service provider is engaged.
	#33.2/...../#29.14 Progress of Boundary Wall and peripheral road.	Noted. The target date of finishing is set as July 31, 2019. Noted. The target date of finishing is set as July 31, 2019.
	#33.2/...../#30.3(a) Addressing functional deficiencies of New Guest House.	The committee expressed dissatisfaction over The recurrence of malfunctioning as well as the lapses in the design of the house.

Item No.	Item	Resolution
34.2		It was resolved that a) there shall be two numbers of common toilets at each floor of the New Guest House b) EE (CPWD) will deliver as would be suggested by the Guest House Committee at the earliest.
	<u>#33.2/...../#30.8</u> Augmentation of Civil, Electrical and visibility capacity with Audio systems of Lecture Halls and Lecture Galleries of old Academic Block.	The Lecture Halls (LHs) will be handed over by 30/6/2019 and the Lecture Galleries (LGs) by 15/07/2019. In regard to provision of furniture of the Lecture Halls, the 'working and undamaged' furniture will be placed in position once the Lecture Halls are taken over (as already resolved earlier) and only the augmented quantity will be supplied once the sample is finally accepted by the Institute.
	<u>#33.2/...../#30.9</u> Yearly maintenance of the campus.	The Institute has requested CPWD once again to take up the Maintenance of the campus. Till then, now onward, the work shall be carried out by the Maintenance Section by categorizing the type of work as (1) those which are, in general, coming under renovation namely internal paintings, roof treatment, replacement of doors, etc. and (2) contingency type. The contractors are to be selected as per GFR 2017. It is also resolved that for the ongoing works if any portion of work appears unfinished because of 'paucity of allocated fund' then for the remaining work a fresh tender is to be floated.
	<u>#33.2/...../#30.10</u> External painting of quarters	Noted.
	<u>#33.2/...../#30.11</u> Underground Sewer lines	Completion date has been fixed as 15.08.2019

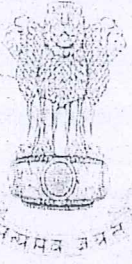

Item No.	Item	Resolution
	<u>#33.2/...../#30.16 (a)</u> Structural Shed of Mechanical Engineering Department	Noted. CPWD has briefed the present progress and assured that the covering shed be completed by 30th June 20, 2019.
	<u>#33.2/#30.16 (b)</u> Renovation of Central Library: PE = Rs. 5.6016cr.	CPWD has assured that the second floor will be completed by July 15, 2019 and the rest will be completed including the Lift by another 3 months, i.e. August 15, 2019.
	<u>#33.2/#31.5 a2)</u> Cleaning of all Septic Tanks of Hostel	Noted.
	<u>#33.2/#32.4</u> Renovation of Old Hostels: PE = Rs. 20.8424 Crore	Noted. It is decided that the work is to be started with Hall-4 and Hall - 5.
	<u>#33.2/#32.5</u> Automation & provision of LAN using OFC for the campus. PE = 5.50955 cr. To be executed as per direction of BOG.	The work is in progress and monitored by The Competent Authority.
	<u>#33.2/#32.6+#32.10</u> Renovation of Campus Road (Concrete and flexible-Bituminous). PE = Rs.330.191 L.	Noted. Fixing of bumpers, reflectors, lane dividers etc. has been started and would be completed by 15 th July 2019. The road side drains will be started next.
	<u>#33.2/#32.13</u> Renovation of Main Gate and North Gate	CPWD assured the completion date of the main gate by July 31, 2019. The colour scheme has been approved. The North gate will be taken up next.
	<u>#33.2/#32.15 A New</u> Stair Case by dismantling the old narrow stair case in Chemical Engineering Department.	CPWD has submitted a PE = Rs. 15,55,000/- which is approved by the committee.
	<u>#33.2/#32.17</u> Beautification of Pond area and Landscaping of the Campus.	The project has been deferred due to paucity of Fund.

Item No.	Item	Resolution
34.2	#34.2/# 33.4 Construction of a G+10 Stories Central Research and Academic Building.	Noted.
34.4	Installation of Lifts, and provision of Toilets and Ramps in Main Academic Building and only Lifts at CSE and ECE Departments for Physically Impaired Students/Persons.	CPWD has informed that the Tender will be floated by 30/06/2019.
34.5	Internal Renovation of Staff Quarters	The detail estimate and tendering will be done after depositing 1 st installment to CPWD.
34.6	Augmentation of Space of CSE Department	Noted as discussed in #35.4
34.7	Installation of AC Power Lines in New Academic Block.	The committee has urged CPWD to comply with the target date of completion as 30/06/2019
35.3	Progress of Various Ongoing Projects	Progress is noted. The committee is not happy with the progress.
35.4	Augmentation of Space of CSE Department	<p>After detail deliberation it was opined that as the existing structure of 3 storied CSE building is already at its designed strength it is not wise to add additional load.</p> <p>Further noted that fire resistance capacity of Pre-Fab PUF blocks (110°-150°) is not enough to be used in this semi-arid region. The durability of PUF is also uncertain. It was thus resolved that the proposal of a RC frame structure over the adjoining Chemistry Department connected by a gangway to the CSE department as already approved in 34th B&WC (# 34.6) be explored.</p> <p>CPWD has submitted a PE of Rs. 1,68,86,000/- on the table which was accepted by the Committee.</p>

Item No.	Item	Resolution
35.4	Augmentation of Space of CSE Department	The committee also pointed out that the estimate should include the cost of LAN with as wide connectivity as possible depending on the Department's need.
35.5	Augmentation of Space of ECE Department	It was resolved that a gangway be constructed connecting the ECE building to the neighbouring D.M. Sen Auditorium and allot a floor of the auditorium to the ECE Department. This work is to be carried out internally.
35.6	Construction of EE Measurement Laboratory	Deferred as per the opinion of Ministry.


Registrar


Director

	<p>Government of India Central Public Works Department O/o the Executive Engineer NIT Durgapur Project Division Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail: eenitdpdcpwd@gmail.com</p>	
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No. 54(15)/EE/NITDPD/CPWD/2019-20/ 205

Date: 01/08/2019

To
The Dean (P & D),
National Institute of Technology,
Mahatma Gandhi Avenue,
Durgapur – 713209.

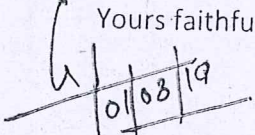
Sub: - Submission of progress report cum expenditure statement of various construction works at NIT Durgapur for the month of July, 2019.

Sir,

Please find herewith progress report cum expenditure statement of various construction works at NIT Durgapur as on 31.07.2019.

Enclosure: - As above.

Yours faithfully


(Manish Kumar Kanodia)
Executive Engineer
NIT Durgapur Project Division
CPWD, Durgapur

PROGRESS REPORT CUM EXPENDITURE STATEMENT OF VARIOUS CONSTRUCTION WORKS AT NIT DURGAPUR (July 2019)

COMPLETED WORKS

Sl. No.	Name of work	A/A & E/S		Deposit	Expenditure	Balance Available	Immediate Fund Requirement (in crore)	% Physical Progress		Remarks
		Amt.	Sanction order No. & date					As claimed	As field verification	
		3a	3b	4	5	6	7	8a	8b	
1	C/o 264 Seated Girl's Hostel	10.18 crore	No.NITD/Dean (P&D)/CPWD/02 /2008.dt01.04.08	10.19	9.78	0.41		100%		Building under use. Building taken over by NIT on 10.12.2015. Settlement of Account in process.
2	C/o 740 Seated Boy's Hostel	26.89 crore	No.NITD/Dean (P&D)/CPWD/02 /2008.dt01.04.08	26.90	26.90	0.00		100%		Building handed over. Settlement of account in process.
3	C/o Academic Block	43.49 crore	No.NITD/CPWD /2008/04.dt 19.12.08	28.22	26.32	1.89		100%		Building completed on 31.05.2014. Building taken over by NIT on 10.12.2015. Settlement/closing of Account in process.
4	C/o Chemistry Laboratory-Cum-Biotechnology Department.	15.09 crore	NITD/CPWD/200 9/01.dt 12.03.09	11.53	11.53	0.00		100%		Building handed over. Settlement of Account in process.
5	Installation of 33/11 KV receiving station & upgradation of existing substations. Part-A: Insatallation Work.	4.53 crore	NITD/CPWD/200 8/04.dt 09.07.09	4.98	4.98	0.00		100%		Work completed. Building taken over by NIT on 10.12.2015. Settlement of Account in process.
	Part-B: Maintenance work			0.85	1.28	-0.43				Now Maintenance work being done by NIT Durgapur.
6	Roof treatment for Faculty and Staff qtrs	9.64 lakh	07.11.2014	0.608	0.61	0.00		100%		Work completed.
7	C/o Subsidiary drainage system of the campus	38.16 lakh	07.11.2014	0.397	0.40	0.00		100%		Work completed.
8	Renovation of Workshop	3.55 Crore	24.03.2014	3.793	3.79	0.00		100%		Work completed.
9	Fixing of wire nets to the students hostel	28.92 lakh	07.11.2014	0.2892	0.26	0.03		100%		Work completed
10	External Painting Hall 1 to 9	117.98 lakh	03.06.2016	1.17	1.04	0.13		100%		Work completed.

PROGRESS REPORT CUM EXPENDITURE STATEMENT OF VARIOUS CONSTRUCTION WORKS AT NIT DURGAPUR (July 2019)

COMPLETED WORKS

Sl. No.	Name of work	A/A & E/S		Deposit	Expenditure	Balance Available	Immediate Fund Requirement (in crore)	% Physical		Remarks
		Amount	Sanction order No. & date					As claimed	As field verification	
1	2	3a	3b	4	5	6	7	8a	8b	9
11	500 seated Girls' Hostel	35.17 crore	17.02.2014		38.66	0.00		100%		Work completed and under use.
11a	Construction of 2 nos. additional Fire Exit Staircase and Service Tax reimbursement.			40.12	1.46	0.00		100%		2 nos. additional staircase were required for fire safety costing Rs.74.86 lakh. Service Tax was introduced in 01/03/2015 and total Service Tax reimbursed was Rs. 71 Lakh. Both were not in the sanctioned Estimate and thus total Rs.74.86 +Rs.71 lakh= 145.86 Lakh is required. Rs.2 lakh is available in main work. Hence additional Rs.1.44 crore was required.
12	VIP Guest House	17.99 crore	NITD/CPWD/2008/03 dt. 27.05.09	14.315	14.36	-0.05	0.00	100%		Work completed and under use.
12a	Grills for Balcony				0.09	-0.09				Grill work completed.
12b	Rain shed for balcony					0.000				Rain shed shall be of Aluminum louver which was not in the scope of original work. Work completed. Some rectification to be done.
12c	Modular Kitchen				0.28	-0.28				Work completed.
13	Renovation of flooring inside of Students Activity Centre At NIT Durgapur	7.685 lakh	3.12.2015	0.0769	0.08	0.000		100%		Work completed and under use.
14	Extension of Dining Hall of Hall no. 1,2 & 5	99.81 lakh	20.01.2016	0.961	1.23	-0.27	0.27	100%		Work completed and under use.
15	Renovation including roof treatment & boundary wall for hall-6 at NIT Durgapur, WB	46.14 Lakh	03.06.2016	0.3076	0.35	-0.04	0.041	100%		Work completed and under use.
16	Internal painting of hostel no. 1 to 9 at NIT Durgapur, West Bengal	56.96 Lakh	03.06.2016	0.56568	0.57	0.000		100%		Work completed.
17	Addition and Alteration for newly allotted EES Deptt.	13.079 lakh	23.06.2016	0.104	0.17	-0.06	0.063	100%		Work completed and under use.

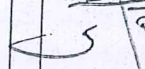
18	Renovation of Math. Dept. old Admn Block for NIT at Durgapur.	11.50 lakh	22.09.2016	0.115	0.12	0.00	0.002	100%	Work completed and under use.
19	Renovation of Toilets of Hall no. 1 to 9 except 6	2.1 crore	12.01.2016	2.277	2.22	0.06	0.12	100%	Work completed and under use.
19a	Addition 95 nos. Geysers			0.1767	0.18	0.00	0.0000	100%	Work completed.
20	Furniture for VIP Guest House	86.51 lakh	15.02.2016	0.80	0.43	0.37		100%	Work completed and under use.
21	Renovation of Centre of Excellence	26.81 lakh	05.05.2016	0.089	0.21	-0.12		100%	Work completed.
22	Providing and fixing Furniture and partition for newly constructed Academic Block for NIT Durgapur.	6.64 crore	28.01.2016	6.64	7.11	-0.47	0.1788	100%	Work completed. Work delayed due to finalisation of lay out of partition wall. Balance Rs.17.8 Lakh Sample Furniture approved by NIT. Work completed and under use.
23	Construction of Concrete Pavement Main Road and Renovation of Flexible Pavement of Campus Road in the Campus of NIT Durgapur (M/L.B.)	Rs. 3.30 crore	letter No. Dean (P&D) New Projects/31 B&WC/1 dtd 10.10.2017	2.20	2.6415	-0.77	1.10	100%	Work Completed.
a	Balance Work				0.3255				
24	Construction of boundary wall of 1 st year Hostel hall-11 of NIT DGP (WB)	Rs.0.499 crore	Dean/P&D/Bound ary wall of Hall-11 /2 dtd,11.05.2018	0.16	0.4469	-0.28	0.30	100%	Work Completed.
25	Exterior painting of Quartes	0.54 cr.	29.12.2017	0.53	0.44	0.01	0.00	100%	Work Completed.
a	Balance Work				0.07				
				158	158	0.06	2.47		

PROGRESS REPORT CUM EXPENDITURE STATEMENT OF VARIOUS CONSTRUCTION WORKS AT NIT DURGAPUR (July 2019)

ON-GOING WORKS

Sl. No.	Name of work	A/A & E/S		Deposit	Expenditure	Balance Available	Immediate Fund Requirement (in crore)	% Physical		Remarks
		Amount	Sanction order No. & date					As claimed	As field verification	
1	2	3a	3b	4	5	6	7	8a	8b	9
1	C/o 1250 seated Boy's Hostel	129.86 crore	23.04.2013	86.50	83.30	3.20	1.00	100%		Building as well as development work is complete. Handing's over in process.
2	C/o 1500 seat capacity Auditorium at NIT Durgapur	26.78 crore	no. NIL dated 23.12.2011	22.40	18.26	1.04	4.38	94%		The site (partly) was handed over on 18.09.2013. There was a temporary structure which was demolished after getting permission from NIT which took time. 5 nos. trees were in the layout which were cut in July 2014 after getting permission from forest department by NIT. There was drain passing through building lay-out which was diverted after getting permission from NIT Durgapur. Lots of services encountered during foundation excavation though the site clearance was conveyed during site handing over. At present building as well as development work completed on 30/11/2018. Consultant for services appointed. Tender for services opened on 30.08.2018 and the works has been awarded. Services work is in progress under the guidance of consultant appointed. Auditorium is likely to be ready in all respect in the mid of August.
a	Acoustic work				3.09			85%		<u>Target Date of Completion: 31-08-2019</u>
3	Raising of Boundary wall	8.5632 cr.	09.08.2016	5.00	3.11	1.89	0.00	100%		Main work Completed, Rectification works completed. Site may be inspected for handover.
5	Relaying & Renovation of Sewer Line in NIT Campus	6.19 cr	29.12.2017	3.10	2.24	0.86	1.02	95%		Work will complete except hospital which will be finished by 15.8.2019.

7	Construction of Conference room & Faculty room on existing 2nd floor for Mechanical Department at NIT Durgapur.	Rs. 0.81 crore		0.27		0.27	0.00	40%	Work in progress, structure completed. Work will be completed in all respect by the end of September.
8	Civil renovation, Electrical renovation i/c lift of Central Library of NIT DGP (WB)	Rs. 5.60 crore	No. Dean (P&D)/Central Library/2 dtd 11.05.2018	1.85	0.3757	1.47	0.00	20%	Work in progress, work is likely to be completed by 28-02-2019.
9	Augmentation of facilities Civil, Electrical and Audio Visual capacity i/c replacement of furniture of LH and LG of main Academic building of NIT DGP-(WB)	Rs. 1.78 crore	No. Dean/P&D/ Augmentation -Aca-Bldg/2 dtd 10.05.2018	0.59	0.2500	0.34	0.00	80%	Work completed and handed over, table & benches will reach by 15-08-2019.
11	C/O Central Research Laboratory (G+10) ('UTKARSH BHAVAN'), NIT Durgapur	Rs. 67.84 Cr.	Dean/P&D/Research Lab/2019/07 dt. 12.03.2019	0.00	0.0471	-0.05	0.20		3rd call of tender will be done on 02.07.2019. In the first call one response received which was not eligible. In the second two nos tenders were received but rate was high.
12	C/o Two (02) Nos. Physically impaired student's toilet and Nine (09) Nos. on the Old Academic Building	Rs. 1.45	Dean/P&D/ PIS/2019/01 dt. 08.01.2019	0.48	0.0000	0.00	0.00		Tender called, work to be awarded.
13	Internal Renovation of 55 Nos. LM Type Qtrs.	Rs 0.93	Dean/P&D/ Otr-Renv/RSQ/2019/05 dt. 08.05.2019	0.31	0.0000	0.00	0.00		Work awarded, vacation plan was sought from NIT, yet to be given.
			Total	278.8647317	268.9794585	9.89	9.07		


 01/08/19
 Executive Engineer
 NIT Durgapur Project Division
 CPWD, Durgapur



Government of India
 Central Public Works Department
 O/o the Executive Engineer
 NIT Durgapur Project Division
 Qtr. No. A/5, NIT Campus, Durgapur-713209
 Ph: 0343-2542361
 e-mail: eenitdpdcpwd@gmail.com



No:-54(12)/EE/NITDPD/CPWD/2019-20/ 217

Date: - 14/08/2019

To

✓ The Dean (P&D)
 National Institute of Technology
 Mahatma Gandhi Avenue
 Durgapur

Sub: - Vertical Extension of Electrical Engineering Lab at NIT Durgapur (WB).

Sir

Enclosed please find herewith the estimate amounting to Rs. **1,61,68,000/-** for Vertical Extension of Electrical Engineering Lab at NIT Durgapur (WB) for accord of Administrative Approval and Expenditure Sanction of the competent authority.

The necessity of framing the preliminary estimate has clearly been explained in the history sheet of the estimate. The head of account to which the expenditure will be booked may be mentioned at the time of conveying Administrative Approval and Expenditure Sanction of the Competent Authority.

It is requested to return one copy of sanctioned preliminary estimate to this office as token of formal approval of the competent authority.

Encl: - As stated

(Manish Kumar Kanodia)

Executive Engineer
 NIT Durgapur Project Division
 CPWD, Durgapur



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF THE EXECUTIVE ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: Vertical Extension of Electrical Engineering
Lab at NIT Durgapur (WB)

ESTIMATED COST: Rs. 1,61,68,000/- i/c 3% Contingencies.

CIRCLE: - SE, CPWD, DURGAPUR.

DIVISION:-NIT DURGAPUR PROJECT DIVISION,CPWD, DURGAPUR.

TIME: - 09 (Nine) Months

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR PROJECT DIVISION.

ESTIMATE NO.

NAME OF WORK: Vertical Extension of Electrical Engineering Lab at NIT Durgapur (WB)

Fund:

MAJOR HEAD	MINOR HEAD	DETAILED HEAD
8443		

Preliminary Estimate framed by Sh. Manish Kumar Kanodia, Executive Engineer, NIT Durgapur Project Division, CPWD, Durgapur of the Probable cost of Rs. **1,61,68,000/-** i/c 3% Contingencies.

REPORT

HISTORY:

This Preliminary estimate amounting to Rs. 1,61,68,000/- (**Rupees One Crore Sixty One Lakh Sixty Eight Thousand**) only i/c 3% Contingencies, 12% GST & 1% WB Govt. Contractor Labour Welfare Cess has been framed to cover the probable cost of the above work and accord necessary A/A & E/S of the competent authority.

This estimate has been prepared based on the proposal for " Vertical Extension of Electrical Engineering Lab at NIT Durgapur as asked via mail given by prof. Nirmal Roy dated 12.08.2019. NIT informed CPWD that the present Ground story structure has foundation and RCC frame designed for G+2 and hence vertical extension is technically feasible. After Site visit Plinth area of the required vertical extension over Electrical engineering department and Lift structure for G+2 was found to be 352 sqm.

Accordingly this Preliminary estimate has been prepared amounting to Rs. 1,61,68,000/- (**Rupees One Crore Sixty One Lakh Sixty Eight Thousand**) only i/c 3% Contingencies, 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007 and 12% GST.

DESIGN AND SCOPE:

The preliminary estimate has been prepared based on site visit done with HOD Electrical, NIT Durgapur.

The following provisions have been kept in this estimate for building portion-

1) Services (Civil)

- a) Vertical extension by RCC frames structure over Electrical Engineering Lab.
- b) Integral cement based water proofing treatment at roof.
- c) Lift for physically challenged.

2) Services (Electrical)

- a) Internal electric installation
- b) Power wiring and plugs
- c) Lightning conductors
- d) LAN conduiting & cabling

SPECIFICATIONS: The work shall be carried out as per CPWD specification 2009, Vol I to Vol -II in general with up to date correction slip.

LAND: Available.

RATE: Based on DPAR 2012 duly enhanced by @ 39% to account for the present approved cost index.

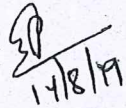
COST: Rs. 1,61,68,000/- i/c 3% Contingencies.

T&P: To be arranged by the Contractor.

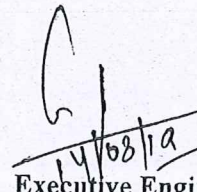
WC ESTABLISHMENT: Will be met out of Contingencies.

METHOD: By contract after call of e-tender.

TIME: 09 (Nine) months (01 month for planning and 08 months for execution).


14/8/19

Assistant Executive Engineer
NIT Durgapur Project Division
CPWD, Durgapur-09


14/08/19

Executive Engineer
NIT Durgapur Project Division
CPWD, Durgapur-09

ABSTRACT OF COST

Name of Work:- Vertical Extension of Electrical Engineering Lab at NIT Durgapur (WB)

S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
I	Main Building Work	8580086.00	4756991.00	13337077.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	85801.00	47570.00	133371.00
	Total Rs.	8665887.00	4804561.00	13470448.00
	Add Contingencies @ 3%	259977.00	144137.00	404114.00
	Grand Total Rs.	8925864.00	4948698.00	13874562.00
	Add GST @12%			1664947.00
	Add EPF @3.34%			463410.00
	Add ESI @1.19%			165107.00
	Grand Total Rs.			16168026.00

Say Rs. 16168000.00

(Rupees One Crore Sixty One Lakh Sixty Eight Thousand) only

[Signature]
14/8/19

Assistant Executive Engineer

Assistant Executive Engineer
NIT Durgapur Project Sub-Division No. II
C.P.W.D., NIT Campus
Durgapur - 713209

[Signature]
14/8/19

Executive Engineer

Executive Engineer
NIT Project Division
C. P. W. D., NIT Campus, Durgapur-9

[Signature]
14/8/2019
Superintending Engineer
CPWD, Durgapur

Name of work:- Vertical Extension of Electrical Engineering Lab at NIT Durgapur (WB)

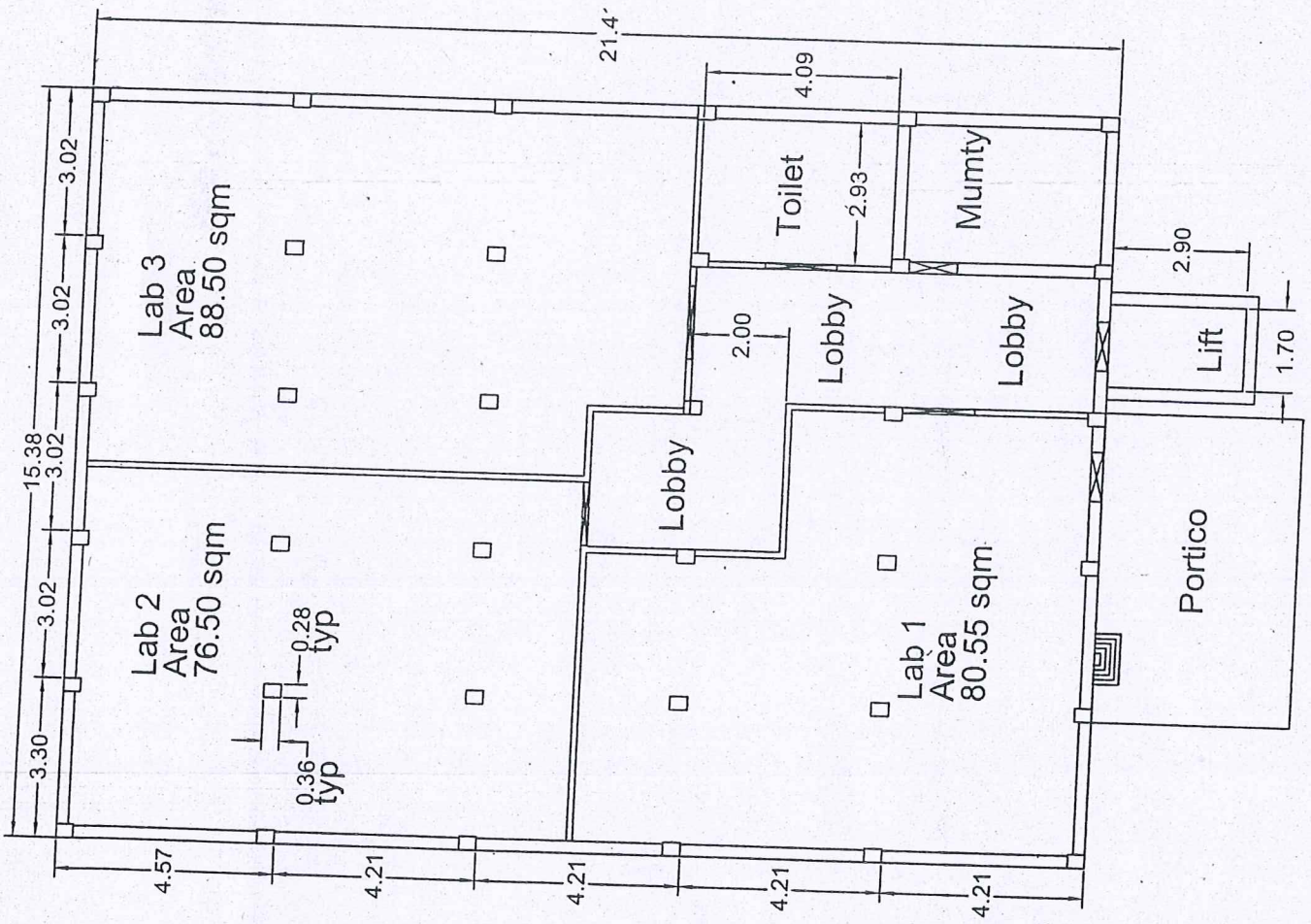
Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	R.C.C framed structure up to six storied of floor height 3.35 mt (including lift area for G+2)	352	sqm	19000.00	6682790.20		DPAR-2012 1.1.1 (B)
2)	Deduct for not providing foundation	329	sqm	2270.00	-747478.77		1.2.6
				Total Rs.	5935311.43	(A)	
3)	Internal water supply and sanitary installation @ 4% of A				237412.46		3.1
4)	Providing IEI For laboratories @ 15% of A					890296.72	3.3
5)	Extra for Power plug wiring , @ 4.00% of A					237412.46	3.6.1
6)	Lightening Conductors @ 0.33% of A					19586.53	3.6.3.2
7)	Extra for LAN conduiting & cabling		L.S			75000	Market Rate
8)	LIFT		L.S			2200000	4.1.3
				Total Rs.	6172724.00	3422296.00	
	Add Cost Index @ 39% on DPAR-2012				2407362.00	1334695.00	
GRAND TOTAL Rs.					8580086.00	4756991.00	


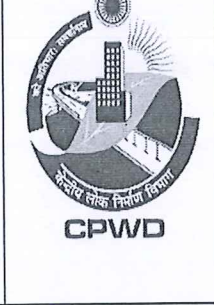
[Signature]
14/8/19.

Assistant Executive Engineer

[Signature]
14/08/19

Executive Engineer



	<p style="text-align: center;">Government of India Central Public Works Department O/o the Executive Engineer NIT Durgapur Project Division Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail: eenitdpdpwd@gmail.com</p>	
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No:-54(12)/EE/NITDPD/CPWD/2019-20/223

Date: -20/08/2019

To,
 The Dean (P&D)
 National Institute of Technology
 Mahatma Gandhi Avenue
 Durgapur-713209

Sub: - Submission of Preliminary Estimate for the work of :- SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT, Durgapur.

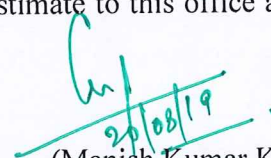
Sir

Enclosed please find herewith the Preliminary Estimate amounting to Rs. 3,99,53,000/- for above mentioned work for accord of Administrative Approval and Expenditure Sanction of the competent authority.

The necessity of framing the Preliminary Estimate has clearly been explained in the history sheet of the estimate. The head of account to which the expenditure will be booked may be mentioned at the time of conveying Administrative Approval and Expenditure Sanction of the Competent Authority.

It is requested to return one copy of sanctioned Preliminary Estimate to this office as token of formal approval of the competent authority.

Encl: - As stated


 (Manish Kumar Kanodia)
 Executive Engineer
 NIT Durgapur Project Division
 CPWD, Durgapur

Copy to:-

1. The Director, NIT, Durgapur for kind information please.
2. The Registrar, NIT, Durgapur for kind information please.
3. The Superintending Engineer, CPWD, Durgapur for kind information please.
4. The Executive Engineer (E), KCED-VII, CPWD, Kolkata-27 for information kind please.

Executive Engineer



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF THE SUPERINTENDING ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT; Durgapur.

ESTIMATED COST: Rs. 3,99,53,000/- including 3% Contingencies

CIRCLE: - SE, CPWD, Durgapur

DIVISION:- KCED-VII, CPWD, KOLKATA

TIME: - 09 (Nine) Months

Government of India
Central Public Works Department

State: West Bengal

Branch: B&R

Zone: CE (EZ-III)

Circle: SE, Durgapur

Estimate No.

Division: KCED-VII

Name of Work: SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT, Durgapur.

Fund: Deposit

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

This Preliminary Estimate has been framed by Er. P.K Ray, Executive Engineer (E), KCED-VII, CPWD of the Probable cost of **Rs.3,99,53,000/- (Rupees Three Crore Ninety Nine Lakh Fifty Three Thousand only)** including 3% Contingencies.

REPORT

HISTORY:

This Preliminary Estimate for the above mentioned work amounting to of **Rs.3,99,53,000/- (Rupees Three Crore Ninety Nine Lakh Fifty Three Thousand only)** including 3% Contingencies has been prepared as per instruction of The Director, NIT Durgapur during meeting on 28-06-2019 in his chamber for accord of Administrative Approval and Expenditure Sanction of the Competent Authority.

Design & Scope

Electrical Works

Following provisions are included in the Preliminary Estimate.

- 1) S.I.T.C of VRV type AC system of required capacity for the Lecture Halls of (i) 60 seated capacity-6 Nos.,(ii) 90 seated capacity-5 Nos., (iii) 150 seated capacity-6 Nos.,(iv) 300 seated capacity-4Nos. and (v) Faculty Cabins (15 Nos.) of 1st Floor Room No-101.
- 2) S.I.T.C. of Split type AC units for each Faculty Cabins at Room Nos.: 001,105,109,202 & 208 and for newly made office of the training and placement section at Room Nos-304, 307 & adjacent areas = 43 Nos.
- 3) Providing necessary wiring with 4.00 sq.mm. FRLS PVC insulated copper conductor single core cable in PVC conduits and required MCB DBs with MCBs for Split type AC units of Faculty Cabins and indoor units of VRV type AC units.

Civil Works:

- 1) Providing and fixing 15 mm thick densified tegular edged ecofriendly light weight calcium silicate false ceiling.
- 2) Dismantling existing false ceiling and making good the same for installation of electrical fittings.

SPECIFICATIONS :-

Electricals Works

1. CPWD General Specification for HVAC Works (2017), CPWD General Specification for electrical works Part-I (Internal 2013), Part-II (External 1995), Indian Electricity Rules 1956 and relevant BIS specifications amended up to date shall be followed.
2. ISI marked or of superior make shall be used in the work. Materials, for which no ISI mark/Certification has been issued, shall be according to manufacturer's specifications as approved by Engineer-in-charge.
3. The work will be executed as per direction of engineer-in-charge.

Civil Works

1. The work shall be carried out as per CPWD specifications 2009, Vol I to Vol -II with up to date correction slip.

RATE :-

Electrical Works: - Market Rates.

Civil Works: - Delhi Schedule of Rates, 2016 enhanced by 36.27 % to account for the present approved Cost Index of 139 for Durgapur as on 04/2018 based on DPAR'2012.

COST: - **Rs. 3,99,53,000/-** including 3% Contingencies. The cost projected in this preliminary estimate is liable to revision due to probable escalation in cost of construction part from other reasons, such as change in area, scope, design & specification etc., desired by the client at a later stage.

T & P: - Required T & P shall be arranged by the contractor

WC ESTABLISHMENT: - Shall be met from Contingencies.

METHOD: - By contract after call of e-tender.

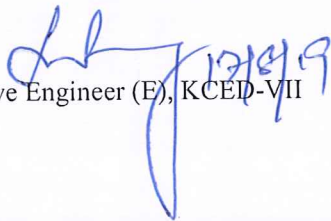
TIME: - 09 (Nine) Months


17-08-19

Assistant Engineer (E), NIT DPESD


17/8/19

Assistant Engineer (C), NIT DPSD-I


17/8/19

Executive Engineer (E), KCED-VII


17/8/19

Executive Engineer (C), NIT DPD


19/8/2019

Superintending Engineer/Durgapur


ABSTRACT OF COST

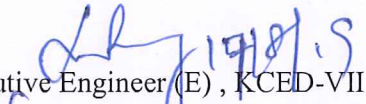
Name of Work:- SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT, Durgapur.


S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
I	Civil Works (Annex-I)	1786040.00		1786040.00
II	Electricals (Annex-II)		34955000.00	34955000.00
	Total Rs.	1786040.00	34955000.00	36741040.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	17860.00	349550.00	367410.00
	Total Rs.	1803900.00	35304550.00	37108450.00
	Add Contingencies @ 3%	54117.00	1059137.00	1113254.00
	Grand Total Rs.	1858017.00	36363687.00	38221704.00
	Add EPF @3.34% on Rs.			1276605.00
	Add ESI @1.19% on Rs.			454838.00
	Grand Total Rs.			39953147.00

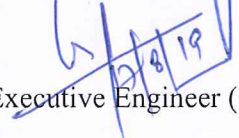
Say Rs. 39953000.00

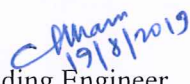
(Rupees Three Crore Ninety Nine Lakh Fifty Three Thousand) only


17-08-19
Assistant Engineer (E), NIT DPESD


19/8/19
Executive Engineer (E), KCED-VII


17/8/19
Assistant Engineer (C), NIT DPSD-I


17/8/19
Executive Engineer (C), NIT DPD


19/8/2019
Superintending Engineer
CPWD, Durgapur

Preliminary Estimate (Annex-I)

Name of work:- SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT, Durgapur.


Sl. No	Description	Qty	Unit	Rate	Amount	DSR No.
1	ROOFING					12
1.1	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross 'T' of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calcium silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK.	770	Sqm	1497.90	1153383.00	12.53
1.2	Dismantling existing false ceiling and making good the metal grid with suitable arrangement as required and as directed by Engineer-in-charge	210	Sqm	748.95	157279.50	50% rate of item no. 12.53
	Total				1310662.50	
	Add Cost Index @36.27%				475377.00	
	Total				1786039.50	
				Say	1786040.00	



 AB (Civil)

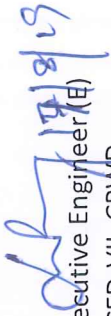
Preliminary Estimate (Annex-II)

Name of Work: SITC of VRV AC, SPLIT AC and False Ceiling at Lecture Halls, Faculty Cabins and training and placement section of New Academic Building, NIT- Durgapur..

Sl. No.	Description of Work.	Total Number of LH	Each Area in Sq. Mtr. (Approx)	Each Req'd. VRV AC HP	Quantity	Unit	Rate	Amount	Remarks
1	Supply, Installation, Testing and Commissioning of VRV / VRF system i/c. indoor, outdoor units, piping, cabling / bus trunking / Rising Main, (within the building), wiring, electrical panel and also treated fresh air system.								
(a)	For 60 Seater Lecture Halls of 3.00 Mtr height	6	105	12.00	72	HP	55000	3960000.00	Rate as per
(b)	For 90 Seater Lecture Halls of 3.00 Mtr height	5	139	16.00	80	HP	55000	4400000.00	Supple
(c)	For 150 Seater Lecture Halls of 3.00 Mtr height	6	195.00	24.00	144	HP	55000	7920000.00	mentary
(d)	For 300 Seater Lecture Halls of 4.25 Mtr height	2	293.00	48.00	96	HP	55000	5280000.00	E&M PAR
(e)	For 300 Seater Lecture Halls of 4.25 Mtr height	2	480.00	80.00	160	HP	55000	8800000.00	2014, Sl.
(f)	For 15 Nos. Faculty cabins at 1st. Floor Room No-101 of 3.00 Mtr. Height.	0	205.00	25.00	25	HP	55000	1375000.00	No: 7,
2	Supply Installation Testing and Commissioning 5 Star rating 1.00 TR / 1.50 TR capacity Split Type AC Unit for Faculty Cabins (at Room Nos-001, 105,109,202 and 208) and at newly made office of the training and placement section at Room Nos-304, 307 and adjacent area along with necessary wirings etc.				43	Each	60000	2580000.00	MR
3	Supply Installation Testing and Commissioning of recess type LED fittings suitable for false ceiling (For Faculty Cabins -40 Nos) along with necessary changes of wirings.				80	Each	8000	640000.00	MR
TOTAL								34955000.00	


 17-08-19
 Assistant Engineer (E)
 DCESD/KCED-VII
 CPWD, NIT-Durgapur


 Assistant Engineer (E)(P)
 KCED-VII, CPWD,
 NL Complex, Kol-27.


 Executive Engineer (E)
 KCED-VII, CPWD,
 NL Complex, Kol-27.