

Minutes

38th Meeting of the Building & Works Committee

National Institute of Technology Durgapur

At the beginning of the 38th B&WC meeting, the Chairman of the Committee warmly welcomed the members and extended thanks to all for their keen interest towards the infrastructural development programme of the Institute.

Item No.	Item	Resolution
38.1	To confirm the minutes of the 37 th meeting of Building & Works Committee (B&WC) held on 06 th December, 2019 (Friday) at Kolkata Extension Centre, IIT Kharagpur, HC BLOCK, Sector - III, Salt Lake City, Kolkata - 700 106.	Confirmed.
38.2	To note down the action taken on items resolved in 37 th meeting of B&WC.	
34.2	#33.2/...../29.3 Lifts of 740 Boys' Hostel Estate section shall submit a report on this in the next meeting of B&WC.	As reported by the Estate Section, all lifts in the concerned hostel are functioning.
	#33.2/...../29.14 Progress of Boundary Wall and peripheral road. Work order issued for balance work; work is in progress. Site handover to be arranged by I/C (Estate).	Work is in progress.
	#33.2/...../30.3a) Addressing functional deficiencies of New Guest House. The concerned persons are requested to deliberate on the developments and take necessary steps urgently.	Steps are being taken in this regard.
	#33.2/...../30.8 Augmentation of Civil, Electrical and visibility capacity with Audio systems of Lecture Halls and Lecture Galleries of old Academic Block. Procedure for handing over is in progress.	Noted.
	#33.2/...../30.9 Yearly maintenance of the campus. CPWD has not yet intimated its decision to take over the yearly maintenance of the campus.	CPWD is once again requested for intimating their decision in this regard.

	<p>#33.2/...../#30.11 Underground Sewer lines</p> <p>Tender to be called after finalization of location of sewer lines.</p>	Locations of sewer lines have been finalised.
	<p>#33.2/...../#30.16 a) Structural Shed of Mechanical Engineering Department</p> <p>The structural shed of ME Dept. has been completed. Handing / taking over of the same is under process.</p>	Noted.
	<p>#33.2/#30.16 (b) Renovation of Central Library: PE = Rs. 5.6016cr.</p> <p>CPWD is asked to expedite the completion of the renovation works.</p>	Noted. Work is in progress.
	<p>#33.2/#32.6 + #32.10 Renovation of Campus Road (Concrete and flexible-Bituminous). PE = Rs.330.191 L.</p> <p>As desired by CPWD, NIT authority shall intimate a date for discussion with STP consultant.</p>	The item is not under consideration at present. However, CPWD may prepare a plan for rainwater harvesting within the campus.
	<p>#33.2/#32.13 Renovation of Main Gate and North Gate.</p> <p>CPWD must initiate the work without any further delay.</p>	Work is completed at both the sites.
	<p>#33.2/#32.15 A New Stair Case by dismantling the old narrow stair case in Chemical Engineering Department.</p> <p>CPWD is to consider this under EWS items.</p>	Noted.
	<p>#32.17 Beautification of Pond area and Landscaping of the Campus.</p> <p>Chairman (Planning) to initiate.</p>	The proposed item is to be initiated by Chairman (Planning).
	<p>#34.2/# 33.4 Construction of a G+10 Storied Central Research and Academic Building.</p> <p>Work started on 24.12.2019. Target date for next activity i.e. completion of pile foundation including casting of pile caps, grade beams is 14.5.2020.</p>	After initiation of the work at site, there has been some delay due to the COVID situation. Now the work is under progress again.
34.4	<p>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.</p> <p>Work is under progress in all the three sites for lifts.</p>	Noted.

	<p>After finalization temporary ramps works in progress.</p> <p>Work for PWD student's toilet is in progress. CPWD has made a sample for demo purpose for feasibility of temporary ramp connectivity for PWD persons for access to teaching and laboratory instruction floors. However, inspection of the sample reveals that there is a hindrance to the normal movement in the corridor. Hence it is suggested that movable lifts for PWD persons need to be installed in all the floors. The matter may be taken up for discussion in the next meeting under any other matter with the permission of the Chair.</p>	
34.5	<p>Internal Renovation of Staff Quarters.</p> <p>Handed over 13 Nos. quarters is in progress, remaining quarters will be handed over by NIT Authorities. I/C (Estate) is to make necessary arrangements.</p>	Noted. Work is in progress.
35.3	<p>Progress of Various Ongoing Projects.</p> <p>CPWD is asked to expedite the completion of all projects and completion of formalities in connection with official handover of the said projects.</p>	Noted.
35.4	<p>Augmentation of Space of CSE Department.</p> <p>Work is in progress.</p>	Noted.
36.3	<p>Progress of Various Ongoing Projects.</p> <p>CPWD is reminded to take up the sewer line connectivity of the said project under the ongoing project of the same head.</p>	Noted.
36.4	<p>Construction of EE Measurement Laboratory</p> <p>Work is in progress.</p>	Noted.
36.5	<p>Air Conditioning of New Academic Block (NAB)</p> <p>CPWD has inordinately delayed in carrying out the said work. It has been asked to take urgent measures for completion of the project.</p>	Work order has been awarded & work is in progress.
37.3	<p>Progress of Various Ongoing Projects.</p> <p>(a) Formal hand over of 1250 seater boys' hostel is not complete.</p>	a. Finishing works & documentation are in progress in 1250 seated boys' hostel.

	<p>(b) (i) For the 1500 capacity auditorium, AC is not working. Video is not complete. Not ready for handover as per the scope & milestone of the work.</p> <p>CPWD is asked to expedite completion of all other works and complete the hand over process in the case of completed projects.</p>	<p>b. Work is in progress in for the completion of the 1500 capacity auditorium and it is nearing the hand over stage.</p> <p>Work is under progress in the remaining sites.</p>
37.5	<p>Special Infrastructure Development Project – 1 : Electrical sciences building & furniture.</p> <p>PE will be submitted by CPWD.</p>	Noted. PE is to be submitted by CPWD.
37.6	<p>Special Infrastructure Development Project – 2 : Smart Card.</p> <p>Chairman (Planning) to initiate.</p>	The proposal is to be submitted by Chairman (Planning) for approval of the authority.
37.7	<p>Special Infrastructure Development Project – 3 : Smart Water Management.</p> <p>Chairman (Planning) to initiate.</p>	The proposal is to be submitted by Chairman (Planning) for approval of the authority.
37.8	<p>Special Infrastructure Development Project – 4 : Smart Electricity Management</p> <p>Chairman (Planning) to initiate.</p>	The proposal is to be submitted by Chairman (Planning) for approval of the authority.
37.9	<p>Special Infrastructure Development Project – 5: Smart Monitoring of Building.</p> <p>Chairman (Planning) to initiate.</p>	The proposal is to be submitted by Chairman (Planning) for approval of the authority.
37.10	<p>Special Infrastructure Development Project – 6: Smart Waste Management.</p> <p>Chairman (Planning) to initiate.</p>	The proposal is to be submitted by Chairman (Planning) for approval of the authority.
37.13	<p>Campus illumination.</p> <p>Estimate will be submitted by CPWD after discussion with I/C (Estate).</p>	Noted.
37.15	<p>Electronic surveillance with optic fibre layout for the campus.</p> <p>CPWD has submitted a P.E. of Rs. 1,81,58,117/- i/c Contingencies.</p> <p>The project will be considered later.</p>	Noted.
37.16	<p>Extension Centre (Kolkata campus) (2000 sqm).</p> <p>Chairman (Planning) to report on the same.</p>	The item is not to be considered at present.
37.17	Children's park.	Noted.

	NIT residents to be consulted in this regard. CPWD may consult with Prof. N. B. Hui, Member PMQCC, in this regard.	
37.19	<p>Landscaping & horticulture.</p> <p>CPWD may submit a revised estimate.</p>	Noted. Signage to be included for different items. The submitted format was approved in Feb, 2020 by Chairman (Cons.) & Chairman (PMQCC). Arrangement of its final approval is to be made by I/C Estate. CPWD may submit the revised estimate.
37.22	<p>Any other matter with the permission of chair.</p> <p>I. Rooftop installation of solar panel: Chairman (Planning) has initiated the process.</p> <p>II. Information regarding maintenance of 1500 capacity auditorium: Report is awaited from CPWD.</p> <p>III. Arrangements to be made for shifting of 2nd and 3rd year B.Tech students to the 1250 seated boys' hostel: Concerned section must take immediate steps for shifting of the students for using hostel & dining facilities.</p> <p>IV. Arrangement for providing AC units in academic buildings to be taken up soon: Chairman (Planning) to coordinate.</p>	Noted.
38.3	<p>Progress of Various Ongoing Projects</p> <p>a) Handing over process of 1250 seater boys' hostel is continuing.</p> <p>b) Work is in progress for several ongoing projects as mentioned below:</p> <p>I. 1500 capacity auditorium</p> <p>II. Renovation of sewer line</p> <p>III. Civil & electrical renovation including lift of central library.</p> <p>IV. Augmentation of civil, electrical & audio-visual capacity including replacement of furniture of LH & LG of main academic building of NIT Durgapur.</p> <p>V. Central Research Laboratory (Utkarsha Bhavan)(under HEFA)</p> <p>VI. 2nos. of toilet for PWD students.</p>	<p>The progress of work suffered due to the prevailing COVID situation. Now, according to CPWD, work is under progress at all sites.</p> <p>Item I:</p> <p>(a) A suitable handover committee is to be formed by the Registrar to cover the different classes of specialised technical items included in the project.</p> <p>(b) Tentative handover date may be considered as 06.11.2020.</p>

	VII. Internal renovation of 55 nos. LM type quarters.	Item III. According to CPWD, the date of completion to be considered as 90 from the last day of handover of site to them.
38.4	<p>Provision of fund for the 1500 capacity auditorium.</p> <p>CPWD [vide letter no. 54(8) SE/Durgapur/CPWD/2020/61, dt. 21.02.2020] (Annexure 38.2) has made a demand for Rs.1.22 cr. beyond the sanctioned amount of Rs.26.78 cr. for completion of the project. The additional fund is necessary for :</p> <ol style="list-style-type: none"> Introduction of GST from 1st July, 2017. Installation of projector of minimum 20000 lumens (as recommended by PMU team) as against 12000 lumens originally considered. Podium fitted with touch screen for Wacom & on screen writing facility with digital pen, feed to be connected to the projector. Document camera. 90"LED TVs (2 nos.) inside the auditorium for facilitating better view for the audience at the back. Movable lift (2 nos.) for PWD & wheelchair bound people, for access to stage. <p>Apart from the demand of Rs.1.22 Cr. which includes item nos. (i) & (ii), the tentative cost for items (iii) to (vi) shall be around Rs.38 lakhs. Hence, total amount of Rs.1.60 Cr. which is within 10% of the sanctioned amount for which revised estimate is not required, may be considered.</p> <p>Placed for approval of the proposal.</p>	<p>a. The item may be accepted in principle with the following break-up: Item (i) 92.00 Lacs Item (ii) 30.00 Lacs Item (iii) 2.00 Lacs Item (iv) 5.00 Lacs Item (v) 26.00 Lacs Item (vi) 5.00 Lacs Total = 1.60 Crore</p> <p>b. Rs. 1.00 Cr. has been allotted in the budget for the current F.Y.</p> <p>c. Balance Rs. 0.60 Cr. may be considered in the budget for 2021-22.</p>
38.5	<p>Comprehensive parking facilities in NIT campus.</p> <p>The proposal was accepted in principle (# 37.15). CPWD submitted a P.E. of Rs. 1, 39,</p>	<p>a. A team comprising representatives of CPWD, Office of the Dean (P&D) & Prof. K. Bhattacharyya may</p>


	<p>49,000/- i/c contingencies. (Annexure 38.3)</p> <p>The work may be carried out on a priority basis & based on the availability of funds.</p> <p>Presently the 1500 capacity auditorium is nearing completion.</p> <p>Understanding the urgency of the parking facility for the auditorium, it is proposed that the parking facility for the auditorium is given a priority and may be carried out in the first phase of the project.</p> <p>Placed for approval of the proposal.</p>	<p>revisit the proposed areas available inside the campus for finalisation of the site & proposal.</p> <p>b. Phases I & II for the work are to be specified.</p> <p>c. The submitted P.E. may be considered approved. Revised P.E. may be submitted by CPWD, if necessary.</p>
38.6	<p>Construction of Vertical Extension of Thermal Engg. Lab.</p> <p>The proposal was accepted in principle under EWS scheme (# 37.4). The P.E. was to be submitted by CPWD.</p> <p>CPWD has submitted a P.E. of Rs. 1,40,87,000/- i/c Contingencies. (Annexure – 38.4).</p> <p>Placed for approval of the P.E.</p>	<p>The submitted P.E. may be considered approved.</p>
38.7	<p>Mechanization of Kitchen & Modernization of dining halls with furniture.</p> <p>The proposal was accepted in principle in connection with Diamond Jubilee Celebrations of the Institute (# 37.11). Understanding the urgency of the project for the students, the work is now proposed to be taken under EWS.</p> <p>CPWD has submitted a P.E. of Rs. 6,49,82,000/- i/c Contingencies (Annexure – 38.5).</p> <p>Placed for consideration of the project under EWS and approval of the P.E.</p>	<p>The proposal may be considered under EWS. The submitted P.E. may be considered approved.</p>
38.8	<p>Expansion & refurbishing of laboratories, academic departments & classrooms.</p> <p>The proposal was accepted in principle (# 37.12) under EWS scheme.</p>	<p>a. CPWD has submitted a revised estimate of Rs. 6.00 Cr. (excluding the provision for networking). The same may be considered approved & the various components</p>

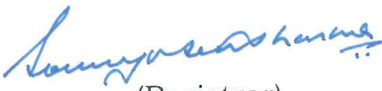
	<p>The P.E. submitted by CPWD was found to be not in order & was to be resubmitted by them.</p> <p>CPWD has submitted a P.E. of Rs.8,04,89,368/- i/c Contingencies (Annexure – 38.6) for a no. of components. Understanding that there is a requirement of networking facility to be provided, so the components of the above work may be taken up on a priority basis and a sum of Rs. 2 Cr. is proposed to be kept aside for networking facilities.</p> <p>Placed for approval of the P.E.</p>	<p>may be taken up in order of priority.</p> <p>b. A sum of Rs. 2.00 Cr. may be kept for arranging networking facility.</p>
38.9	<p>Construction of Vertical Extension of the IT building (previous Administrative building)</p> <p>The Institute is suffering from an acute crunch in space for academic & research activities and faculty office in view of a large increase in the faculty strength and elective courses offered to the students.</p> <p>The IT building (previous Administrative building) that presently houses Mathematics and CSE departments, was constructed by MECON (in 2002 – 2003) with three floors with a foundation for five floors for future expansion. It is proposed to construct two additional floors (vertical extension) in the building for academic and research activities. It is proposed to complete these works from the EWS scheme.</p> <p>The P.E. of Rs 4,63,59,000/- has been submitted by CPWD (Annexure – 38.7)..</p> <p>Placed for approval of the project and the P.E.</p>	<p>a. The proposal is accepted in principle & may be considered under EWS.</p> <p>b. CPWD submitted a revised P.E. considering the provision of a 13-passenger capacity lift in place of the proposed 8-passenger capacity lift to accommodate PWD students. The revised P.E. amount of Rs.4,79,94,000/- may be considered approved.</p>
38.10	<p>Completion of the top two floors of Sarojini Naidu Hall of Residence including the interiors</p> <p>Sarojini Naidu Hall of Residence (Hall 13) was handed over by CPWD and inaugurated in July 2017. The construction of the hostel was made for seven floors but the interiors were completed for five floors only and handed over to the Institute as the fund allocated was fully spent for students' accommodation.</p>	<p>The proposal is accepted in principle & may be considered under EWS. The submitted P.E. may be considered approved.</p>


	<p>Due to the Covid-19 pandemic, there is a need to revisit the status of hostel accommodation for reducing the congestion and will require an urgent expansion of hostel capacity for the girl students. The top two incomplete floors of Hall 13 have been lying unutilized for the last three years for want of funds. These floors are already constructed and will only need the remaining works like flooring, toilets, plastering and other interiors. It is proposed to complete these works from the EWS scheme.</p> <p>The P.E. of Rs 2,22,69,500/- has been submitted by CPWD (Annexure – 38.8)..</p> <p>Placed for approval of the project and the P.E.</p>	
38.11	<p>Extension of sewer line including toilet blocks at NIT Campus,</p> <p>Relaying & renovation of sewer lines of the academic block (old & new), library, S. N. Ray Memorial building & the building opposite to it, 1500 capacity auditorium were not considered in the earlier scope. But for better management of sewer lines all over the campus, the abovementioned zones may be considered to be connected to the newly laid sewer lines in the campus along with construction of a few toilet blocks in selected points in the campus.</p> <p>The proposal was earlier discussed & accepted in principle (# 37.21). It is proposed to complete these works from the EWS scheme under renovation of academic departments for the enhanced intake of students.</p> <p>The P.E. of Rs 2,74,21,000/-has been submitted by CPWD (Annexure – 38.9)..</p> <p>Placed for approval of the project and the P.E.</p>	<p>The proposal is accepted in principle & may be considered under EWS. The submitted P.E. may be considered approved.</p>
38.12	<p>Consideration of defect liability period (DLP) for projects under CPWD</p> <p>A letter No. Dean(P&D)/cv01/AUDITORIUM/2019/1/243/2, dt. 08.01.2019 (Annexures 38.10 & 38.11) from the then Dean (P&D) & addressed to</p>	<p>The item is accepted in principle.</p>

	the CPWD regarding DLP & maintenance cum operation, was communicated to CPWD for DLP & operation & maintenance of ACs, sub-stations, DG sets, pumps, electrical systems, lifts, external lighting, security related equipment during the post construction period. There is a further need for the provision of audio-visual systems & other services such that the Institute can utilize these for 03 years without any hassle. CPWD may update the status of the same as the hand over process is under progress for several projects.	
38.13	No objection certificate (NOC) for fire-fighting set up regarding handing / taking over of construction projects. CPWD must provide status of the same to avoid delay in completion of the hand over process of construction projects.	The item is accepted in principle.
38.14	Fund utilization certificate for completed works from CPWD. CPWD must provide fund utilization certificates for all projects to NIT Durgapur.	The item is accepted in principle.
38.15	Any other matter with permission of Chair.	There was no other item.

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


(Director)
Chairman,
B&WC, NIT Durgapur


(Registrar)
Member-Secretary
B&WC, NIT Durgapur

	<p align="center"> Government of India Central Public Works Department O/o Superintending Engineer Durgapur Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail-sedurgapurcpwd@gmail.com </p>	
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23/(Misc)/SE/Durgapur/CPWD/2020-21/216

Dated: - 23 / 09 / 2020

To
 The Chairman Construction,
 National Institute of Technology,
 Mahatma Gandhi Avenue,
 Durgapur - 09.

Subject: - Preliminary Estimate for NIT, Durgapur.

Sir,

Enclosed please find here with the Preliminary Estimate for accord of Administrative Approval and Expenditure Sanction of the competent authority.

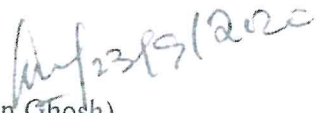
- Vertical Extension of Old Academic Building (Originally planned as IT Building) at NIT Durgapur (WB). Estimated Cost; Rs.4,63,59,000.00
- Extension of Sewer line including toilet blocks at NIT Campus, Durgapur (WB)
Estimated Cost: Rs.2, 74, 21,000.00

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 a token of formal approval of the competent authority.

This issues with the approval of the SE-Durgapur.

Encl:- As above


 (Anjan Ghosh)
 Assistant Engineer (Admin)
 CPWD, Durgapur.

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR DIVISION.

ESTIMATE NO.

NAME OF WORK: Vertical Extension of Old Academic Building (Originally planned as IT Building)
at NIT Durgapur (WB)

Fund:

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

This Preliminary Estimate framed by Er.Manish Kumar Kanodia, Executive Engineer, NIT Durgapur Division, CPWD, Durgapur and Er. R.N.Kundu, Executive Engineer (E), Durgapur Electrical Division, CPWD, Durgapur of the Probable cost of Rs. **4,63,59,000/-**(Rupees Four Crore Sixty Three Lakh Fifty Nine Thousand) only including 3% Contingencies.

REPORT

HISTORY:

This Preliminary estimate amounting to Rs. **4,63,59,000/-**(Rupees Four Crore Sixty Three Lakh Fifty Nine Thousand) only i/c 3% Contingencies, & 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 Old Academic Building (Originally planned as IT Building) at NIT Durgapur (WB) as asked via mail given by prof. Soumya Bhattacharyya dated 02.09.2020 that the present G+2 Structure has been designed for Six storied building and NIT wants Vertical extension by two additional floors. Also General arrangement and structural drawings for the building were given, accordingly the provision of vertical extension by two floors was found feasible as per approved structural drawings. Plinth area of the required vertical extension over existing G+2 RCC Framed structure was found to be $502.5 \text{ sqm} \times 2 = 1005 \text{ sqm}$.

Accordingly this Preliminary estimate has been prepared amounting to Rs. **4,63.59,000/-**(Rupees Four Crore Sixty Three Lakh Fifty Nine 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 .

24. 7.23.

DESIGN AND SCOPE:

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

1) Services (Civil)

- a) Vertical extension of 2 additional floor overexisting G+2 RCC Frame Structure
- b) Integral cement based water proofing treatment at roof.
- c) Internal water supply and sanitary installation for additional two floors.

2) Services (Electrical)

- a) Internal electric installation for proposed two floors
- b) Power wiring and plugs for proposed 2 floors
- c) Lightning conductors
- d) LAN conduit & cabling for proposed 2 floors
- e) Firefighting system with hose reel, down comer system, terrace tank and pump for all floors.
(Note: - Existing small shaft (for 5 person lift) as shown in the drawing will be used as Firefighting Down comer Shaft)
- g) Automatic Fire Alarm System for all floors.
- h) 8 passenger Lift- 1 no. (As per availability of existing shaft in the building which is shown in the drawing, 13 passenger lift is not possible for installation. Note:- In actual Site visit shaft was found covered and CPWD has considered the provision for lift as per the drawings given by NIT Authorities)
- (i) Electrical Supply Distribution panel for the Entire building after replacing the existing one.
- (j) Split AC -20 no. 1.5 TR & 20 No. 2.0 TR for the top two floors

SPECIFICATIONS: The work shall be carried out as per CPWD specification 2010(Reprint), Vol I & Vol -II in general with up to date correction slip.

LAND: Available.

RATE: Based on DPAR 2019 duly enhanced by @ 6% to account for the present approved Cost Index.

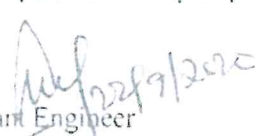
COST: Rs. 4,63.59,000/- (Rupees Four Crore Sixty Three Lakh Fifty Nine Thousand) only including 3% Contingencies, the cost projected in the preliminary estimate is liable to revision due to probable escalation in cost of construction part from the other reasons, such as change in area, scope, design & specification etc., desired by the client at the later stage.

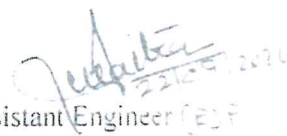
T&P: To be arranged by the Contractor.

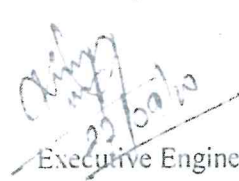
WC ESTABLISHMENT: Will be met out of Contingencies.

METHOD: By contract after call of e-tender.

TIME: 15 (Fifteen) months (03 month for planning and 12 months for execution) after receipt of A/A & E/S and timely deposit of fund.


Assistant Engineer
CPWD, Durgapur


Assistant Engineer (E) F
CPWD, Durgapur


Executive Engineer
CPWD, Durgapur

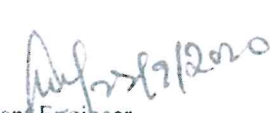
ABSTRACT OF COST

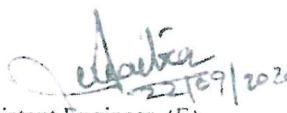
Name of work:- Vertical Extension of Old Academic Building (Originally planned as IT Building)
at NIT Durgapur (WB)


S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
1	Main Building Work	28591321.00	14040256.00	42631577.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	285913.00	140403.00	426316.00
	Total Rs.	28877234.00	14180659.00	43057893.00
	Add Contingencies @ 3%	866317.00	425420.00	1291737.00
	Grand Total Rs.	29743551.00	14606079.00	44349630.00
	Add EPF @3.34%			1481278.00
	Add ESI @1.19%			527761.00
	Grand Total Rs.			46358669.00


Say Rs. 46359000.00

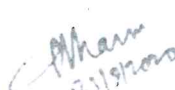
(Rupees Four Crore Sixty Three Lakh and Fifty Nine thousand) only


Assistant Engineer
CPWD, Durgapur


Assistant Engineer (E)
CPWD, Durgapur


Executive Engineer
NIT Durgapur Division
CPWD, Durgapur


Executive Engineer
Durgapur Electrical Division
CPWD, Durgapur


Superintending Engineer
CPWD, Durgapur

Name of work:- Vertical Extension of Old Academic Building (Originally planned as IT Building) at NIT Durgapur (WB)

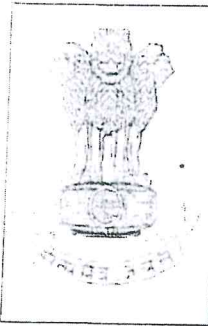
Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
1	R.C.C. FRAMED STRUCTURE (up to six storeys)				Civil	Electrical	
1.1	Floor height 3.60 m (502.5*2 = 1005.00 sqm)	1005.00	sqm	25500.00	25627500.00		DPAR-2019 1.1.1
				Total Rs.	25627500.00	(A)	
2	FIRE FIGHTING						
2.1	With Wet Riser Shaft (Plinth area 564.8+502.5*4)	2475.00	sqm	800.00		1980000.00	1.5.1
3	FIRE ALARM SYSTEM						
3.1	Automatic Fire Alarm System	2475.00	sqm	600.00		1485000.00	1.6.2
4	SERVICES						
4.1	Internal water supply and sanitary installations	on (A)		4.00%	1025100.00		2.1
4.2	External Service connections						2.2
4.2	Electrical External Service connections	on (A)		3.75%		961031.00	2.2.1
4.2	Civil External Service connections	on (A)		1.25%	320344.00		2.2.2
4.2	Internal electric installations	on (A)		12.50%		3203438.00	2.3
5	EXTRA FOR						
5.1	Power wiring and plugs	on (A)		4.00%		1025100.00	2.6.1
5.2	Lightening Conductors	on (A)		0.25%		64069.00	2.6.3
5.2	Extra for LAN conduiting & cabling		L.S			502500.00	Market Rate
6	LIFT (For 8 Passenger)					1600000	3.1.1
7	SITC of Split AC						
7.1	1.5 TR 5 Star.	20 Nos.	Each	60000		1200000	Market Rate
7.2	2.0 TR 5 Star	20 Nos.	Each	70000		1400000	Market Rate
				Total Rs.	26972944.00	13421138.00	
				B/F	26972944.00	13421138.00	
	Add Cost Index @ 6% on DPAR-2019				1618377.00	619118.00	
	GRAND TOTAL Rs.				28591321.00	14040256.00	

Assistant Engineer
CPWD, Durgapur

Executive Engineer
NIT Durgapur Division
CPWD, Durgapur

Assistant Engineer (E)
CPWD, Durgapur

Executive Engineer
Durgapur Electrical Division
CPWD, Durgapur



Government of India
Central Public Works Department
O/o the Superintending Engineer
Durgapur
Qtr. No. A/5, Durgapur-713209
Ph: 0343-2542361
e-mail: sedurgapurcpwd@gmail.com



No. 54(8) SE/Durgapur/CPWD/2020/ 61

Dated: - 21/02/2020

To

The Chairman (Construction)
NIT Durgapur

Sub: Requirement of additional funds for Construction of 1500 seated Auditorium at NIT Durgapur.
Sir,

The A/A & E/S amount of the above said work is Rs. 26.78 crore vide letter no. Nil dtd 23.12.2011. Tenders were called in two packages. Only building works were in the first package which have been completed in Nov. 2018 and total cost is Rs. 18.95 crores. Second tender was called for services such as AC, Acoustics, Audio-Video, chair, stage-crafting, stage lighting, false ceiling etc. for which tender amount is Rs. 6 crore and total cost is likely to be 8.60 crore.

Thus total expenditure for this work shall be Rs.28 crores which is 1.22 crore above the sanction amount Rs. 26.78 crore.

Main reasons of deviation of cost are as follows:-

- In the tender of 2nd package the provision of projector of 12000 lumens was considered as a part of Audio-Video system. The rate of projector in tender was Rs. 17 lacs. Later PMU team on their visit in June 2019 pointed out that Projector of 12000 lumens is sufficient for this auditorium and they recommended the projector of minimum 20000 lumens. Accordingly the tender for projector has been called and the tentative cost is likely to be Rs. 45 lacs.
- Because of GST introduced on 1st July 2017 there has been an extra expenditure in 1st package, items paid on market rates and in 2nd package tender rates have also been high due to this.
- Initially there were many Electrical cables and telephone cables passing through the site which were shifted. There was also a big drain passing through the site which has been diverted. The diversion of these works took extra cost.

In this way, as explained above total cost of the project has exceeded the sanctioned amount Rs. 26.78 crore by Rs.1.22 crores which is within 10% of the sanctioned amount for which, sanction revised estimate is not required.

So, it is requested that the said amount Rs. 1.22 crore beyond the sanctioned amount may be released so that the final bills of agency may be cleared please.

Thanking you.

(C P Sharma)
21/02/2020

Superintending Engineer
CPWD, Durgapur

Copy to: Executive Engineer NIT Durgapur Project Division, CPWD for information.

Superintending Engineer

IC (Estt)
conclusion
not BWC meeting
Shd 21.02.2020
Chl (Ct)
of D2001P-10

Recd
21/02/2020
78. 77.

NO 56(12)/SE/Durgapur/CPWD/2019-20/239 dtd. 8/10/2020

8/10/2020
SE (Admin)
SE - DHP.



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF THE SUPERINTENDING ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: Construction of car parking at NIT campus,
Durgapur, West Bengal.

ESTIMATED COST: Rs. 1, 39, 49,000/- including i/c Contingencies.

CIRCLE:- DURGAPUR.

TIME: - 9 (Nine) Months

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR DIVISION.

ESTIMATE NO.

NAME OF WORK: Construction of car parking at NIT campus, Durgapur, West Bengal.

Fund:

MAJOR HEAD	MINOR HEAD	DETAILED HEAD
8443		

The Preliminary Estimate framed by Sh. Manish Kumar Kanodia, Executive Engineer, (civil), NIT Durgapur Project Division, CPWD, Durgapur of the Probable cost of **Rs. 1,39,49,000/-** including 3% Contingencies.

REPORT

HISTORY:

This Preliminary estimate amounting **Rs. 1,39,49,000/- (Rupees One Crore Thirty Nine lacs forty Nine thousand)** only including 3% Contingencies, & 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 "Construction of car parking at NIT campus, Durgapur" vide letter no. Dean (P&D)/B01/Parking/1 dtd 23.06.2017.

Accordingly this Preliminary estimate has been prepared amounting to **Rs. 1,39,49,000/- (Rupees One Crore Thirty Nine lacs forty Nine thousand)** only including 3% Contingencies, 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007.

DESIGN AND SCOPE:

The preliminary estimate has been prepared based on site visit done and requirement given by NIT Durgapur.

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

80. 79.

1) Services (Civil)

- a) Carrying of available earth.
- b) Leveling & rolling earth.
- c) Laying of C.C over rolled earth.
- d) PCC 1:5:10
- e) CC 1:2:4
- f) RCC 1:1.5:3 for drain cover
- g) Providing & laying of 60 mm thick factory made cement concrete interlocking paver block of M-30 grade.
- h) Steel Shed and roof sheeting
- i) Centering and shuttering.

2) Services (Electrical)

- a) LED Fittings and internal wiring
- b) Service connection

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 2019 duly enhanced by @ 6% to account for the present approved cost index.

COST: Rs. 1,39,49,000/- including 3% Contingencies, the cost projected in the preliminary estimate is liable to revision due to probable escalation in cost of construction part from the other reasons, such as change in area , scope , design & specification etc., desired by the client at the later stage.

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: 9 (Nine) months.

sd/-
Assistant Executive Engineer
NIT Durgapur Division

C
sd/-
Executive Engineer
NIT Durgapur Division

sd/-
Assistant Engineer (E)
Durgapur Electrical Division

sd/-
Executive Engineer (E)
Durgapur Electrical Division


ABSTRACT OF COST


Name of work- Construction of car parking at NIT campus, Durgapur, West Bengal.

S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
I	Main Building Work	11717542.00		11717542.00
II	Electrical work (Internal & External)		1000000.00	
	Total Rs.	11717542.00	1000000.00	12717542.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	117175.00	10000.00	127175.00
	Total Rs.	11834717.00	1010000.00	12844717.00
	Add Contingencies @ 3% (min 5 lacs)	460684.23	39315.77	500000.00
	Grand Total Rs.	12295401.23	1049315.77	13344717.00
	Add EPF @3.34%			445714.00
	Add ESI @1.19%			158802.00
	Grand Total Rs.			13949233.00

Say Rs. 13949000.00


(Rupees One crore Thirty Nine lacs Forty Nine thousand) only




(Prakhar Prashant)
Assistant Executive Engineer


(Manish Kumar Kanodia)
Executive Engineer


(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)


(C.P. Sharma)
Superintending Engineer

	<p style="text-align: center;">Government of India Central Public Works Department O/o the Superintending Engineer Durgapur Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail: sedurgapurcpwd@gmail.com</p>	
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No:-54(12)/SE/Durgapur/CPWD/2019-20/237

Date: - 8/08/2020

To
 The Chairman Construction
 National Institute of Technology
 Mahatma Gandhi Avenue
 Durgapur

Sub: - Vertical Extension of Heat Transfer Lab at NIT Durgapur (WB)

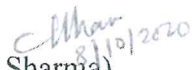
Sir

Enclosed please find herewith the estimate amounting to Rs. **1,40,87,000/-** for Vertical Extension of Heat Transfer 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


 (C. P. Sharma)
 Executive Engineer
 NIT Durgapur Division
 CPWD, Durgapur



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF SUPERINTENDING ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: Vertical Extension of Heat transfer lab at NIT
Durgapur (WB)

ESTIMATED COST: Rs. 1,40,87,000/- i/c Contingencies

CIRCLE: - SE, CPWD, DURGAPUR.

DIVISION:-NIT DURGAPUR 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 DIVISION.

ESTIMATE NO.

NAME OF WORK: Vertical Extension of Heat power 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 Division, CPWD, Durgapur of the Probable cost of **Rs. 1,40,87,000/-** including Contingencies.

REPORT

HISTORY:

This Preliminary estimate amounting to **Rs. 1,40,87,000/- (Rupees One Crore Forty Lakh Eighty Seven Thousand)** only including 3% Contingencies (min 5,00,000), 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 Heat Transfer Lab at Mechanical Department NIT Durgapur as asked via mail given by Prof. Atul Krishna Banik dated 18.10.2019. Accordingly the estimate was prepared with plinth area 352 sqm.

Accordingly this Preliminary estimate has been prepared amounting to **Rs. 1,40,87,000/- (Rupees One Crore Forty Lakh Eighty Seven Thousand)** only i/c 3% Contingencies (min 5,00,000), 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007.

DESIGN AND SCOPE:

The preliminary estimate has been prepared based on site visit done with HOD Physics Prof. A layek and Prof S. Ghosh, 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 Heat Transfer Lab with roof truss at top..

- b) Lift for physically challenged.
- c) Puff installed roof profile sheet

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 2019 duly enhanced by @ 6% to account for the present approved cost index.

COST: Rs. 1,40,87,000/- including Contingencies, the cost projected in the preliminary estimate is liable to revision due to probable escalation in cost of construction part from the other reasons, such as change in area , scope , design & specification etc., desired by the client at the later stage.

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).

42/-
Assistant Executive Engineer
NIT Durgapur Division

108/10/20
Executive Engineer
NIT Durgapur Division

28/-
Assistant Engineer (E)
Durgapur Electrical Division

24/-
Executive Engineer (E)
Durgapur Electrical Division

ABSTRACT OF COST

Name of work:- Vertical Extension of Heat power Lab 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	9353817.00	3494004.00	12847821.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	93538.00	34940.00	128478.00
	Total Rs.	9447355.00	3528944.00	12976299.00
	Add Contingencies @ 3%	364023.48	135976.52	500000.00
	Grand Total Rs.	9811378.48	3664920.52	13476299.00
	Add EPF @3.34%			450108.00
	Add ESI @1.19%			160368.00
	Grand Total Rs.			14086775.00

Say Rs. 14087000.00

(Rupees One Crore Forty Lakh Eighty Seven Thousand) only



sd/-
(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

sd/-
(Debasish Mishra)
Assistant Engineer (E)

sd/-
(R. N. Kundu)
Executive Engineer (E)

C.P. Sharma
8/10/2020
(C.P. Sharma)
Superintending Engineer

	<p style="text-align: center;"> Government of India Central Public Works Department O/o the Superintending Engineer Durgapur Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail: sedurgapurecpwd@gmail.com </p>	
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No:-54(12)/SE/Durgapur/CPWD/2019-20/236

Date: - 8/08/2020

To
The Chairman Construction
 National Institute of Technology
 Mahatma Gandhi Avenue
 Durgapur

**Sub: - Mechanisation of Kitchen and Mordernisation of dining halls (required cases)
 with furniture**


Sir

Enclosed please find herewith the estimate amounting to **Rs. 6,49,82,000/-** for Mechanisation of Kitchen and Mordernisation of dining halls (required cases) with furniture 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


 (C. P. SHARMA)
 Superintending Engineer
 CPWD, Durgapur



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF SUPERINTENDING ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: Mechanisation of Kitchen and
Modernisation of dining halls (required cases) with
furniture

ESTIMATED COST: Rs. 6,49,82,000/- i/c Contingencies

CIRCLE:- DURGAPUR.

TIME: - 18 (Eighteen) Months

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR DIVISION.

ESTIMATE NO.

NAME OF WORK: Mechanisation of Kitchen and Mordernisation of dining halls (required cases) with furniture

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. 6,49,82,000/- i/c Contingencies

REPORT

HISTORY:

This Preliminary estimate amounting to Rs. 6,49,82,000/- (Rupees Six Crore Forty Nine Lakh Eighty Two Thousand) only i/c Contingencies, & 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 “**Mechanisation of Kitchen and Mordernisation of dining halls (required cases) with furniture**” as asked via mail given by Prof. Atul Krishna Banik dated 21.09.2019.

Accordingly this Preliminary estimate has been prepared amounting to Rs. 6,49,82,000/- (Rupees Six Crore Forty Nine Lakh Eighty Two Thousand) only i/c Contingencies, 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007.

DESIGN AND SCOPE:

The preliminary estimate has been prepared based on site visit done and requirement given by Prof. Atul Krishna Banik via mail dated 21.09.2019.

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

1) Services (Civil)

- a. Modernization of dining area via change in tiles, internal painting, plumbing etc.
- b. Supply and Installation of Modular kitchen Equipments
- c. SS Furniture is taken in consideration
- d. Gas bank construction for modular kitchen.

2) Services (Electrical)

- a) Internal electric installation

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 2019 duly enhanced by @ 6% to account for the present approved cost index.

COST: Rs. 6,49,82,000/- i/c Contingencies, the cost projected in the preliminary estimate is liable to revision due to probable escalation in cost of construction part from the other reasons, such as change in area , scope , design & specification etc., desired by the client at the later stage.

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: 18 (Eighteen) months (03 month for planning and 15 months for execution).

sd/-
Assistant Executive Engineer
NIT Durgapur Division

sd/-
Executive Engineer
NIT Durgapur Division

sd/-
Assistant Engineer (E)
Durgapur Electrical Division

sd/-
Executive Engineer (E)
Durgapur Electrical Division

ABSTRACT OF COST

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) with furniture

S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
1	Hall 1	5160002.00	644999.00	5805001.00
2	Hall 2	5160002.00	644999.00	5805001.00
3	Hall 3	3947633.00	493454.00	4441087.00
4	Hall 4	3967369.00	495921.00	4463290.00
5	Hall 5	5312606.00	664076.00	5976682.00
6	Hall 6	3027132.00	378392.00	3405524.00
7	Hall 7	2732967.00	341621.00	3074588.00
8	Hall 8	2835310.00	354414.00	3189724.00
9	Hall 9	4684858.00	585609.00	5270467.00
10	Hall 10	4050587.00	506324.00	4556911.00
11	Hall 11	7763869.00	970483.00	8734352.00
12	Hall 12	3218318.00	402289.00	3620607.00
13	Hall 13	5900407.00	737551.00	6637958.00
	Grand Total Rs.	57761060.00	7220132.00	64981192.00

Say Rs. 64982000.00

(Rupees Six Crore Forty Nine Lakh Eighty Two Thousand) only

sd/-
(Prakhar Prashant)
Assistant Executive Engineer

[Signature]
(Manish Kumar Kanodia)
Executive Engineer

sd/-
(Debasish Mishra)
Assistant Engineer (E)

sd/-
(R. N. Kundu)
Executive Engineer (E)

[Signature]
(C.P. Sharma)
Superintending Engineer

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 1

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & S Furniture for hall 1	1.00	L.S.		2708100.00		Market Rate
2)	Internal water supply and plumbing works & Renovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		1123460.00		As per annexure
	Total Civil				4476560.00		
5)	Providing IEI For laboratories @ 12.5% of A					559570.00	2.3
				Total Rs.	4476560.00	559570.00	
	Add Cost Index @ 6% on DPAR-2019				268594.00	33574.00	
	SUB TOTAL Rs.				4745154.00	593144.00	5338298.00
I	Dinning Hall Work				4745154.00	593144.00	5338298.00
	Add contingencies 3%				142355.00	17794.00	160149.00
	Grand Total Rs.				4887509.00	610938.00	5498447.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				48875.00	6109.00	54984.00
	Grand Total Rs.				4936384.00	617047.00	5553431.00
	Add EPF @3.34%				164875.00	20609.00	185484.00
	Add ESI @1.19%				58743.00	7343.00	66086.00
	Grand Total Rs.				5160002.00	644999.00	5805001.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 2

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments and SS Furniture for hall 2	1.00	L.S.		2708100.00		Market Rate
2)	Internal water supply and plumbing works & rennovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		1123460.00		As per annexure
	Total Civil				4476560.00		
5)	Providing IEI For laboratories @ 12.5% of A					559570.00	2.3
				Total Rs.	4476560.00	559570.00	
	Add Cost Index @ 6% on DPAR-2019				268594.00	33574.00	
	SUB TOTAL Rs.				4745154.00	593144.00	
I	Dinning Hall Work				4745154.00	593144.00	5338298.00
	Add contingencies 3%				142355.00	17794.00	160149.00
	Grand Total Rs.				4887509.00	610938.00	5498447.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				48875.00	6109.00	54984.00
	Grand Total Rs.				4936384.00	617047.00	5553431.00
	Add EPF @3.34%				164875.00	20609.00	185484.00
	Add ESI @1.19%				58743.00	7343.00	66086.00
	Grand Total Rs.				5160002.00	644999.00	5805001.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 3

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments and SS Furniture for hall 3	1.00	L.S.		1913370.00		Market Rate
)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		866399.00		As per annexure
	Total Civil				3424769.00		
i)	Providing IEI For laboratories @ 12.5% of A					428096.13	2.3
				Total Rs.	3424769.00	428096.00	
	Add Cost Index @ 6% on DPAR-2019				205486.00	25686.00	
	SUB TOTAL Rs.				3630255.00	453782.00	
I	Dinning Hall Work				3630255.00	453782.00	4084037.00
	Add contingencies 3%				108908.00	13613.00	122521.00
	Grand Total Rs.				3739163.00	467395.00	4206558.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				37392.00	4674.00	42066.00
	Grand Total Rs.				3776555.00	472069.00	4248624.00
	Add EPF @3.34%				126137.00	15767.00	141904.00
	Add ESI @1.19%				44941.00	5618.00	50559.00
	Grand Total Rs.				3947633.00	493454.00	4441087.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

98. 94.

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 4

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments and SS Furniture for hall 4	1.00	L.S.		1913370.00		Market Rate
)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		883521.00		As per annexure
	Total Civil				3441891.00		
)	Providing IEI For laboratories @ 12.5% of A					430236.38	2.3
				Total Rs.	3441891.00	430236.00	
	Add Cost Index @ 6% on DPAR-2019				206513.00	25814.00	
	SUB TOTAL Rs.				3648404.00	456050.00	
I	Dinning Hall Work				3648404.00	456050.00	4104454.00
	Add contingencies 3%				109452.00	13682.00	123134.00
	Grand Total Rs.				3757856.00	469732.00	4227588.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				37579.00	4697.00	42276.00
	Grand Total Rs.				3795435.00	474429.00	4269864.00
	Add EPF @3.34%				126768.00	15846.00	142614.00
	Add ESI @1.19%				45166.00	5646.00	50812.00
	Grand Total Rs.				3967369.00	495921.00	4463290.00

(Prakhar Prashant)
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(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

96.95.

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 5

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 5	1.00	L.S.		2708100.00		Market Rate
2)	Internal water supply and plumbing works & Renovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		1255852.00		As per annexure
	Total Civil				4608952.00		
5)	Providing IEI For laboratories @ 12.5% of A					576119.00	2.3
				Total Rs.	4608952.00	576119.00	
	Add Cost Index @ 6% on DPAR-2019				276537.00	34567.00	
	SUB TOTAL Rs.				4885489.00	610686.00	
I	Dinning Hall Work				4885489.00	610686.00	5496175.00
	Add contingencies 3%				146565.00	18321.00	164886.00
	Grand Total Rs.				5032054.00	629007.00	5661061.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				50321.00	6290.00	56611.00
	Grand Total Rs.				5082375.00	635297.00	5717672.00
	Add EPF @3.34%				169751.00	21219.00	190970.00
	Add ESI @1.19%				60480.00	7560.00	68040.00
	Grand Total Rs.				5312606.00	664076.00	5976682.00

(Prakhar Prashant)
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(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 6

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 6	1.00	L.S.		1166312.00		Market Rate
2)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S.		814876.00		As per annexure
	Total Civil				2626188.00		
5)	Providing IEI For laboratories @ 12.5% of A					328273.50	2.3
				Total Rs.	2626188.00	328274.00	
	Add Cost Index @ 6% on DPAR-2019				157571.00	19696.00	
	SUB TOTAL Rs.				2783759.00	347970.00	
I	Dinning Hall Work				2783759.00	347970.00	3131729.00
	Add contingencies 3%				83513.00	10439.00	93952.00
	Grand Total Rs.				2867272.00	358409.00	3225681.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				28673.00	3584.00	32257.00
	Grand Total Rs.				2895945.00	361993.00	3257938.00
	Add EPF @3.34%				96725.00	12091.00	108816.00
	Add ESI @1.19%				34462.00	4308.00	38770.00
	Grand Total Rs.				3027132.00	378392.00	3405524.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 7

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments & SS Furniture for hall 7	1.00	L.S.		1193452.00		Market Rate
)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		532535.00		As per annexure
	Total Civil				2370987.00		
)	Providing IEI For laboratories @ 12.5% of A					296373.38	2.3
				Total Rs.	2370987.00	296373.00	
	Add Cost Index @ 6% on DPAR-2019				142259.00	17782.00	
	SUB TOTAL Rs.				2513246.00	314155.00	
I	Dinning Hall Work				2513246.00	314155.00	2827401.00
	Add contingencies 3%				75397.00	9425.00	84822.00
	Grand Total Rs.				2588643.00	323580.00	2912223.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				25886.00	3236.00	29122.00
	Grand Total Rs.				2614529.00	326816.00	2941345.00
	Add EPF @3.34%				87325.00	10916.00	98241.00
	Add ESI @1.19%				31113.00	3889.00	35002.00
	Grand Total Rs.				2732967.00	341621.00	3074588.00

sd/-
(Prakhar Prashant)
Assistant Executive Engineer

sd/-
(Manish Kumar Kanodia)
Executive Engineer

sd/-
(Debasish Mishra)
Assistant Engineer (E)

sd/-
(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 8

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments & SS Furniture for hall 8	1.00	L.S.		1193452.00		Market Rate
)	Internal water supply and plumbing works & Renovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		621322.00		As per annexure
	Total Civil				2459774.00		
)	Providing IEI For laboratories @ 12.5% of A					307471.75	2.3
				Total Rs.	2459774.00	307472.00	
	Add Cost Index @ 6% on DPAR-2019				147586.00	18448.00	
	SUB TOTAL Rs.				2607360.00	325920.00	
I	Dinning Hall Work				2607360.00	325920.00	2933280.00
	Add contingencies 3%				78221.00	9778.00	87999.00
	Grand Total Rs.				2685581.00	335698.00	3021279.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				26856.00	3357.00	30213.00
	Grand Total Rs.				2712437.00	339055.00	3051492.00
	Add EPF @3.34%				90595.00	11324.00	101919.00
	Add ESI @1.19%				32278.00	4035.00	36313.00
	Grand Total Rs.				2835310.00	354414.00	3189724.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

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Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 9

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments & SS Furniture for hall 9	1.00	L.S.		1978860.00		Market Rate
)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		1440489.00		As per annexure
	Total Civil				4064349.00		
i)	Providing IEI For laboratories @ 12.5% of A					508043.63	2.3
				Total Rs.	4064349.00	508044.00	
	Add Cost Index @ 6% on DPAR-2019				243861.00	30483.00	
	SUB TOTAL Rs.				4308210.00	538527.00	
I	Dinning Hall Work				4308210.00	538527.00	4846737.00
	Add contingencies 3%				129246.00	16156.00	145402.00
	Grand Total Rs.				4437456.00	554683.00	4992139.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				44375.00	5547.00	49922.00
	Grand Total Rs.				4481831.00	560230.00	5042061.00
	Add EPF @3.34%				149693.00	18712.00	168405.00
	Add ESI @1.19%				53334.00	6667.00	60001.00
	Grand Total Rs.				4684858.00	585609.00	5270467.00

(Prakhar Prashant)
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(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 10

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
)	Kitchen Equipments & SS Furniture for hall 10	1.00	L.S.		1913370.00		Market Rate
)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
)	Mordernisation of dinning halls		L.S		955717.00		As per annexure
	Total Civil				3514087.00		
)	Providing IEI For laboratories @ 12.5% of A					439260.88	2.3
				Total Rs.	3514087.00	439261.00	
	Add Cost Index @ 6% on DPAR-2019				210845.00	26356.00	
	SUB TOTAL Rs.				3724932.00	465617.00	
I	Dinning Hall Work				3724932.00	465617.00	4190549.00
	Add contingencies 3%				111748.00	13969.00	125717.00
	Grand Total Rs.				3836680.00	479586.00	4316266.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				38367.00	4796.00	43163.00
	Grand Total Rs.				3875047.00	484382.00	4359429.00
	Add EPF @3.34%				129427.00	16178.00	145605.00
	Add ESI @1.19%				46113.00	5764.00	51877.00
	Grand Total Rs.				4050587.00	506324.00	4556911.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 11

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 11	1.00	L.S.		3495750.00		Market Rate
2)	Internal water supply and plumbing works & Renovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		2594796.00		As per annexure
	Total Civil				6735546.00		
5)	Providing IEI For laboratories @ 12.5% of A					841943.25	2.3
				Total Rs.	6735546.00	841943.00	
	Add Cost Index @ 6% on DPAR-2019				404133.00	50517.00	
	SUB TOTAL Rs.				7139679.00	892460.00	
I	Dinning Hall Work				7139679.00	892460.00	8032139.00
	Add contingencies 3%				214190.00	26774.00	240964.00
	Grand Total Rs.				7353869.00	919234.00	8273103.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				73539.00	9192.00	82731.00
	Grand Total Rs.				7427408.00	928426.00	8355834.00
	Add EPF @3.34%				248075.00	31009.00	279084.00
	Add ESI @1.19%				88386.00	11048.00	99434.00
	Grand Total Rs.				7763869.00	970483.00	8734352.00

(Prakhar Prashant)
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Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 12

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 12	1.00	L.S.		1351572.00		Market Rate
2)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		795481.00		As per annexure
	Total Civil				2792053.00		
5)	Providing IEI For laboratories @ 12.5% of A					349006.63	2.3
				Total Rs.	2792053.00	349007.00	
	Add Cost Index @ 6% on DPAR-2019				167523.00	20940.00	
	SUB TOTAL Rs.				2959576.00	369947.00	
I	Dinning Hall Work				2959576.00	369947.00	3329523.00
	Add contingencies 3%				88787.00	11098.00	99885.00
	Grand Total Rs.				3048363.00	381045.00	3429408.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				30484.00	3810.00	34294.00
	Grand Total Rs.				3078847.00	384855.00	3463702.00
	Add EPF @3.34%				102833.00	12854.00	115687.00
	Add ESI @1.19%				36638.00	4580.00	41218.00
	Grand Total Rs.				3218318.00	402289.00	3620607.00

(Prakhar Prashant)
Assistant Executive Engineer

(Manish Kumar Kanodia)
Executive Engineer

(Debasish Mishra)
Assistant Engineer (E)

(R. N. Kundu)
Executive Engineer (E)

Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 13



Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 13	1.00	L.S.		2742320.00		Market Rate
2)	Internal water supply and plumbing works & Renovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00		1.1.2
4)	Mordernisation of dinning halls		L.S		1731579.00		As per annexure
	Total Civil				5118899.00		
5)	Providing IEI For laboratories @ 12.5% of A					639862.38	2.3
				Total Rs.	5118899.00	639862.00	
	Add Cost Index @ 6% on DPAR-2019				307134.00	38392.00	
	SUB TOTAL Rs.				5426033.00	678254.00	
1	Dinning Hall Work				5426033.00	678254.00	6104287.00
	Add contingencies 3%				162781.00	20348.00	183129.00
	Grand Total Rs.				5588814.00	698602.00	6287416.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07				55888.00	6986.00	62874.00
	Grand Total Rs.				5644702.00	705588.00	6350290.00
	Add EPF @3.34%				188533.00	23567.00	212100.00
	Add ESI @1.19%				67172.00	8396.00	75568.00
	Grand Total Rs.				5900407.00	737551.00	6637958.00

sd/-
(Prakhar Prashant)
Assistant Executive Engineer

sd/-
(Manish Kumar Kanodia)
Executive Engineer

sd/-
(Debasish Mishra)
Assistant Engineer (E)

sd/-
(R. N. Kundu)
Executive Engineer (E)

	<p style="text-align: center;"> Government of India Central Public Works Department O/o the Superintending Engineer Durgapur Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail: sedurgapurcpwd@gmail.com </p>	
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No:-54(12)/SE/Durgapur/CPWD/2019-20/238

Date: - 8/06/2020

To
 The Chairman Construction
 National Institute of Technology
 Mahatma Gandhi Avenue
 Durgapur

Sub: - Expansion and Refurbishing of laboratories, academic departments and classroom.


Sir

Enclosed please find herewith the estimate amounting to **Rs. 8,04,90,000/-** for Expansion and Refurbishing of laboratories, academic departments and classroom 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


 (C. P. SHARMA)
 Superintending Engineer
 CPWD, Durgapur



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF THE SUPERINTENDING ENGINEER

PRELIMINARY ESTIMATE

NAME OF WORK: Expansion and Refurbishing of laboratories,
academic departments and classroom.

ESTIMATED COST: ^{8,04,89,368/-} Rs.8,04,90,000/- including Contingencies.

CIRCLE: - SE, CPWD, DURGAPUR.

DIVISION:-NIT DURGAPUR DIVISION,CPWD, DURGAPUR.

TIME: - 24 (Twenty Four) Months

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR DIVISION.

ESTIMATE NO.

NAME OF WORK: Expansion and Refurbishing of laboratories, academic departments and classroom.

Fund:

MAJOR HEAD	MINOR HEAD	DETAILED HEAD
8443		

The Preliminary Estimate framed by Sh. Manish Kumar Kanodia, Executive Engineer, (Civil), NIT Durgapur Division, CPWD, Durgapur & Sh R. N. Kundu Executive Engineer (Elect.) Durgapur Electrical Division, CPWD, Durgapur of the Probable cost of **Rs. 8,04,90,000/-** including Contingencies.

8,04,89,368/-

REPORT

HISTORY:

This Preliminary estimate amounting **Rs. 8,04,90,000/-** (~~Rupees Eight Crore Four Lac Ninty Thousand~~) only including Contingencies, & 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.

8,04,89,368/-

This estimate has been prepared based on the proposal for "Expansion and Refurbishing of laboratories, academic departments and classroom." as asked via mail given by Prof. Atul Krishna Banik dated 21.09.2019. Accordingly estimate has been prepared.

Rs. 8,04,89,368/-

Accordingly this Preliminary estimate has been prepared amounting to **Rs. 8,04,90,000/-** (~~Rupees Eight Crore Four Lac Ninty Thousand~~) only including Contingencies, 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007.

DESIGN AND SCOPE:

The preliminary estimate has been prepared based on site visit done and requirement given via mail by Prof. Atul Krishna Banik dated 21.09.2019.

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

- 1) Conversion of Old Canara Bank into Civil HOD office at NIT Durgapur
Services (Civil)

- Providing and lying vitrified floor tiles.

- Providing and fixing ceramic glaze wall tiles.
- Internal wall with putty to be finishing with oil bound distemper.
- Water proofing treatment with APP.
- Providing and fixing European type W.C. pan.
- Providing and fixing aluminium particle board.
- Cement concrete pavement footpath with paver block..

Services (Electrical)

- Internal electrical installation including LED fittings
- Power wiring and plugs
- Split AC 2 Nos.

2) Expansion of existing Structural laboratory Lab at NIT Durgapur (WB)

Services (Civil)

- a) Lateral Expansion by RCC frames structure beside wind tunnel Room at Structural Lab.
- b) Integral cement based water proofing treatment at roof.
- c) External plaster, Toilet fittings, doors and ventilation of partially constructed load bearing toilet.
- d) Creating opening in place of existing windows for entrance to Wind tunnel Room

Services (Electrical)

- a) Internal electric installation
- b) Power wiring and plugs
- c) Lightning conductors
- d) LAN conduiting& cabling
- e) Split Ac (8TR) for new space and existing wind tunnel room

3) Modernization of classrooms, seminar rooms, air conditioning, fittings and accessories with new sub-station at NIT Durgapur (WB)

Services (Civil)

- a) RCC frames structure for new sub station
- b) Providing and fixing 15 mm thick densifiedtegular edged ecofriendly light weight calcium silicate false ceiling including internal painting.
- c) Minor rectification for plaster/Floor/wall tile etc.

Services (Electrical)

- a) Internal electrical installation including LED fittings
- b) Power wiring and plugs
- c) S.I.T.C of 5 Star rating 2.00 TR capacity Split Type AC Unit along with necessary wirings, MCB Distribution Boards, Starter Switch etc. (2.00 TR X 100 Nos.)
- d) S.I.T.C of Cubical Type LT Panel (for Non-Essential AC Supply) along with MCCBs, earthing etc. for old Ac. Block, ECE, CSE & BT Buildings.
- e) Supply and laying of Aluminium Conductor XLPE insulated PVC sheatedarmoured UG Power Cable of 1.1 KV grade for New Non-Essential Panel from I.B. Sub Station.
- f) S.I.T.C. of 1000 KVA, 11kV/0.433 kV Transformer along with HT Panel, HT cable, LT Cable, LT Panel, Essential panel, Earthing, required inter-connections, etc. complete as required after replacing existing 2 Nos. 500 KVA Transformers.

- g) S.I.T.C. of recess type LED fittings suitable for false ceiling along with necessary changes of wirings.
- 4) New Stair Case at Chemical Engineering Department in OLD Academic Building at NIT Durgapur (WB)
- Services (Civil)**
- a) Dismantling of old narrow staircase.
 - b) Construction of new staircase in place of old one.
- Services (Electrical)**
- a) Internal electric installation
- 5) Modernization of Toilets and facilities for PH students
- Services (Civil)**
- a) Replacement of old sanitary appliances with new sanitary appliances
 - b) Replacement of old sanitary/water supply line wherever required and repair to leakage, if any.
- Services (Electrical)**
- a) Internal electric installation
- 6) Renovation of Chemistry Department at NIT Durgapur West Bengal.
- Services (Civil)**
- a) Vitrified floor tiles in passage, lab, faculty room & seminar hall.
 - b) Internal wall with putty to be finishing with oil bound distemper.
- Services (Electrical)**
- a) Internal electric installation including LED fittings
 - b) Power wiring and plugs
 - c) LAN conduiting& cabling
- 7) Renovation of Computer Science Building at NIT Durgapur
- Services (Civil)**
- a) Vitrified floor tiles in passage, lab, faculty room & seminar hall.
 - b) Internal wall with putty to be finishing with oil bound distemper.
- Services (Electrical)**
- a) Internal electrical installation including LED fittings
 - b) Power wiring and plugs
 - c) LAN conducting & cabling
- 8) Renovation of existing server room for physics dept. at NIT Durgapur (WB)
- Services (Civil)**
- a) Renovation of server room into physics lab on ground floor.
- Services (Electrical)**
- a) Internal electric Renovation like LED Fittings Conceal wiring etc.
- 9) Civil & Electrical renovation and repair of old staircases and landings and other minor civil repair and renovation as needed (Old - Academic building).

Services (Civil)

- Providing Kota stone in stairs of old Academic building.
- Minor repair work like plaster and paint wherever deemed necessary.
- Waterproofing with APP in areas where leakage is found.

Services (Electrical)

- Replacement of Internal electrical installation with LED fittings near all stair areas.

10) Renovation of E.C. Department at NIT Durgapur West Bengal.

Services (Electrical)

- a) LED Fittings
- b) Wiring for AC units with MCB, DB

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 2019 duly enhanced by @ 6% to account for the present approved cost index.


COST: Rs. ~~8,04,90,000/-~~ ^{8,14,89,368/-} including Contingencies, the cost projected in the preliminary estimate is liable to revision due to probable escalation in cost of construction part from the other reasons, such as change in area , scope , design & specification etc., desired by the client at the later stage.

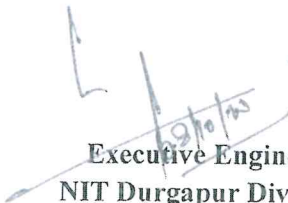
T&P: To be arranged by the Contractor.

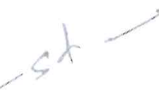
WC ESTABLISHMENT: Will be met out of Contingencies.

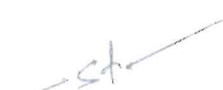
METHOD: By contract after call of e-tender.

TIME: 24 (Six) months (4 month for planning and 20months for execution).


Assistant Executive Engineer
NIT Durgapur Division


Executive Engineer
NIT Durgapur Division


Assistant Engineer (E)
Durgapur Electrical Division


Executive Engineer (E)
Durgapur Electrical Division

ABSTRACT OF COST

Name of work:- Expansion and Refurbishing of laboratories,academic departments and classroom.

S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
1	Conversion of Old Canara Bank into Civil HOD office at NIT Durgapur.	1818480.00	474038.00	2292518.00
2	Expansion of existing Structural laboratory Lab at NIT Durgapur (WB)	1581938.00	917569.00	2499507.00
3	Modernization of classrooms, seminar rooms, air conditioning, fittings and accessories with new sub-station at NIT Durgapur (WB).	8384910.00	23434826.00	31819736.00
4	New Stair Case at Chemical Engineering Department in OLD Academic Building at NIT Durgapur (WB)	1242003.00	126434.00	1368437.00
5	Modernization of Toilets and facilities for PH Students	13832053.00	1729007.00	15561060.00
6	Renovation of chemistry Building at NIT Durgapur	3131637.00	1631138.00	4762775.00
7	Renovation of Computer Science Building at NIT Durgapur	7104498.00	6524553.00	13629051.00
8	Renovation of existing server room for physics dept at NIT Durgapur (WB)	993253.00	230534.00	1223787.00
9	Civil & Electrical renovation and repair of old staircases and landings and other minor civil repair and renovation as needed (Old - Academic building)	5954707.00	744339.00	6699046.00
10	Renovation of E.C. Building at NIT Durgapur	0.00	633451.00	633451.00
	Grand Total Rs	44043479.00	36445889.00	80489368.00

(Rupees Eight Crore Four Lac Ninty Thousand) only

sd
(Prakhar Prashant)
Assistant Executive Engineer

sd
(Debasish Mishra)
Assistant Engineer(E)

sd
(Manish Kumar Kanodia)
Executive Engineer

sd
(R. N. Kundua)
Executive Engineer(E)

sd
(C.P. Sharma)
Superintending Engineer

112. 111.

	<p style="text-align: center;">Government of India Central Public Works Department O/o Superintending Engineer Durgapur Qtr. No. A/5, NIT Campus, Durgapur-713209 Ph: 0343-2542361 e-mail-sedurgapurcpwd@gmail.com</p>	
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23/(Misc)/SE/Durgapur/CPWD/2020-21/202

Dated: - 22/09/2020

To
 The Chairman Construction,
 National Institute of Technology,
 Mahatma Gandhi Avenue,
 Durgapur - 9.

Subject: - Preliminary Estimate for NIT, Durgapur.

Sir,

Enclosed please find here with the Preliminary Estimate for accord of Administrative Approval and Expenditure Sanction of the competent authority.

- a) Finishing works including Internal Electrical Installation and Fans on top two floors at 500 seated Girls Hostel Building, NIT, Durgapur.

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 a token of formal approval of the competent authority.

This issues with the approval of the SE-Durgapur.

Encl:- As above

(Anjan Ghosh)
 Assistant Engineer (Admin)
 CPWD, Durgapur.

Government of India
Central Public Works Department

State: West Bengal
Circle: SE, Durgapur

Branch: B & R
Division: NIT Durgapur Division

Estimate No.

Name of Work :- Finishing works including Internal Electrical Installation and Fans on top two floors at 500 seated Girls Hostel Building, NIT, Durgapur.

Fund: Deposit

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

This Detailed Preliminary Estimate has been framed by Er. Manish Kumar Kanodia, Executive Engineer, NIT Durgapur Division, CPWD, Durgapur & Er. R. N. Kundu, Executive Engineer (E), Durgapur Electrical Division, CPWD, NIT Durgapur of the Probable cost of **Rs. 2,22,69,500.00 (Rupees Two Crore Forty Seven Lac Forty Seven Thousand)** only including 3% Contingencies.

REPORT

HISTORY:

This Detailed Preliminary Estimate for the above mentioned work amounting to **Rs. 2,22,69,500.00 (Rupees Two Crore Forty Seven Lac Forty Seven Thousand)** only including 3% Contingencies has been framed to cover the probable cost of the above work and to obtain the necessary Administrative Approval and Expenditure Sanction of the Competent Authority to meet up the expenditure for construction.

Requisition has been received from the NIT Durgapur Authority through mail on 02 September, 2020 and accordingly this estimate has been framed.

The execution of the work will depend up on the receipt of funds well in time during construction.

Design & Scope:-

During original construction of 500 seated Girls Hostel for 5th & 6th floor, construction work including external & internal wall, fixing of door frame, external colour work & fixing window with grill, ceiling plaster, internal brick work and roof treatment completed.

Provisions have been kept in this estimate to complete the 5th & 6th floor as under:-

Services (Civil Works)

- 1) Internal flooring work (vitrified)
- 2) Bath toilet partition wall fitting, fixing, fixture.
- 3) Internal wall & ceiling putty & colour.
- 4) Internal GI & CI pipe line.
- 5) Fixing of flush door, PVC door fire door with fittings.

Services (Electrical Works)

- 1) Wiring for light points, fan points, plug points etc. in existing conduits with modular switches and FRLSH copper conductor wire.
- 2) S.I.T.C of 5 Star rating BLDC ceiling fans.
- 3) S.I.T.C. of LED fittings.
- 4) S.I.T.C. of exhaust fans in toilets.
- 5) S.I.T.C. of Distribution Boards with MCBs.
- 6) Extension of Essential and Non-Essential Rising Mains from 4th floor to 6th floor.
- 7) S.I.T.C. of occupancy sensors for automatic control of corridor lights.

SPECIFICATIONS:-

Civil Works:-

The work shall be carried out as per CPWD specification 2010(Reprint) Vol-I and Vol-II with up to date correction slip.

Electricals Works:-

1. 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 .

LAND: -

Available

RATE: -

Based on DSR 2019 duly enhanced by @ 6% to account for the present approved cost index (Civil works) & DSR-2018 and Market Rates (Electricals works).

COST: -

Rs. 2,22,69,500.00 (Rupees Two Crore Forty Seven Lac Forty Seven Thousand) only 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: -

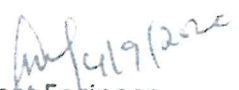
Shall be met from Contingencies.


METHOD: -

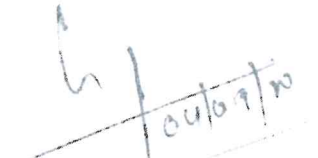
By contract after call of e-tender.

TIME: -

08 (Eight) Months (Two months for planning including preparation and finalization of tender and six months for execution) after receipt of AA & ES and timely deposit of fund.


Assistant Engineer
CPWD , Durgapur


Assistant Engineer (E)
CPWD , Durgapur



Executive Engineer
NIT Durgapur Division
CPWD , Durgapur

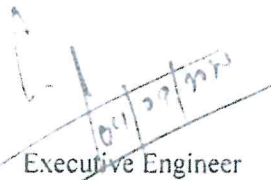
ABSTRACT OF COST


Name of Work : - Finishing works including Internal Electrical Installation and Fans on top two floors at 500 seated Girls Hostel Building, NIT, Durgapur.				
Sl. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
		16742648.00	3736448.00	20479096.00
	Total Rs.	16742648.00	3736448.00	20479096.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	167426.00	37364.00	204790.00
	Total Rs.	16910074.00	3773812.00	20683886.00
	Add Contingencies @ 3%	507302.00	113214.00	620516.00
	Total Rs.			21304402.00
	Add EPF @ 3.34%			711567.00
	Add ESI @ 1.19%			253522.00
	Grand Total Rs.			22269491.00


Say Rs. 22269500.00

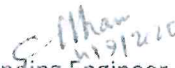
(Rupees Two Crore Twenty two Lakh Sixty nine Thousand five hundred) only


Assistant Engineer
CPWD, Durgapur


Executive Engineer
NIT Durgapur Division
CPWD, Durgapur


04-09-2020
Assistant Engineer (E)
CPWD, Durgapur


Executive Engineer (E)
Durgapur Electrical Division
CPWD, Durgapur


Superintending Engineer
CPWD, Durgapur

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: WEST BENGAL

BRANCH: B & R

CIRCLE: SE, Durgapur

DIVISION: NIT DURGAPUR DIVISION

ESTIMATE NO.

NAME OF WORK:- Extension of sewer line including toilet blocks at NIT Campus, Durgapur (W.B.)
Fund:

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

Preliminary Estimate framed by Sh. Manish Kumar Kanodia, Executive Engineer, NIT Durgapur Division, CPWD, Durgapur and Er. R.N.Kundu, Executive Engineer (E), Durgapur Electrical Division, CPWD, Durgapur of the Probable cost of Rs. 2,74,21,000/- (Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only including 3% Contingencies.

REPORT

HISTORY:

This Preliminary estimate amounting to Rs. 2,74,21,000/- (Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only including 3% Contingencies, 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 as per requirement conveyed vide e-mail dated 03.08.2020.

Accordingly this Preliminary estimate has been prepared amounting to Rs. 2,74,21,000/- (Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only including 3% Contingencies, 1% Contract Labour Welfare Cess as per West Bengal Principal Secretary (W.B) No- 107(40) Pr/Sec dated. 17.01.2007.

DESIGN AND SCOPE:

This Preliminary Estimate has been prepared based on the basis of requirement received from the NIT Durgapur.

The following provisions have been kept in this estimate -

Services (Civil)

- 1) 5 nos. Public toilet blocks unit Ladies & Gents and 3 nos. Security toilet.
- 2) W.C. pan, wash basin, urinal with mirror of this toilet.
- 3) wall tiles upto 2.10 m height

- 4) Floor tiles
- 5) Extension of sewer line in campus
- 6) Manholes 165 nos.

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 DSR 2018 duly enhanced by @ 6% to account for the present approved cost index.

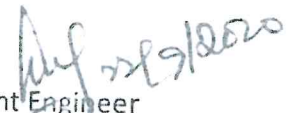
COST: Rs. 2,74,21,000/- (Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only including 3% Contingencies.

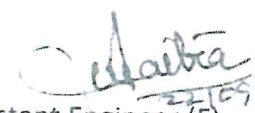
T&P: To be arranged by the Contractor.


W C ESTABLISHMENT: Will be met out of Contingencies.

METHOD: By contract after call of e-tender.

TIME: 08 (Eight) Months (Two months for planning including preparation and finalization of tender and six months for execution) after receipt of AA & ES and timely deposit of fund.


Assistant Engineer
CPWD, Durgapur


Assistant Engineer (E)
CPWD, Durgapur

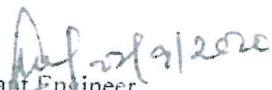

Executive Engineer
NIT Durgapur Division
CPWD, Durgapur


ABSTRACT OF COST

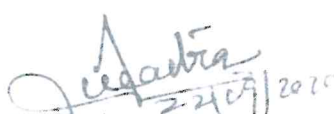
Name of Work :- Extension of sewer line including toilet blocks at NIT Campus, Durgapur (W.B.)				
Sl. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
1	Extension of sewer line	24424426.00	0.00	24424426.00
2	Providing Internal Electric Installation LS		300000.00	
3	Providing Electrical Service Connections LS		500000.00	
	Total Rs.	24424426.00	800000.00	25224426.00
	Add @ 1% W.B. Govt. Labour Welfare Cess O.M. No. 107(40)/ Pr. Sec. dt 17.01.07	244244.00	0.00	244244.00
	Total Rs.	24668670.00	800000.00	25468670.00
	Add Contingencies @ 3%	740060.00	24000.00	764060.00
	Grand Total Rs.	25408730.00	824000.00	26232730.00
	Add EPF @3.34%			876173.00
	Add ESI @1.19%			312169.00
	Grand Total Rs.			27421072.00

Say Rs. 27421000.00


(Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only


Assistant Engineer
CPWD, Durgapur


Executive Engineer
NIT Durgapur Division
CPWD, Durgapur


Assistant Engineer (E)
CPWD, Durgapur

Executive Engineer (E)
Durgapur Electrical Division
CPWD, Durgapur


Superintending Engineer
CPWD, Durgapur



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
MAHATMA GANDHI AVENUE, DURGAPUR-713209
(West Bengal), INDIA, www.nitdgp.ac.in
Dean (P & D)

An Autonomous Institution of the Govt. of India under MHRD

No.: Dean(P & D)/cv01/AUDITORIUM/2019/1/243/2 Date: 08/01/2019

To
Mr. Durgaprasad Konar
SE, Elect.
Kolkata Electrical Circle -1,
CPWD, Nijam Palace 234/4 AJC BOSE ROAD
Kolkata-20

Sub.: Defect Liability period and Maintenance cum Operation, reg.

Dear Mr. Konar

Probably you are aware that a Standard Operating Procedure (SOP) was prepared by PMU (Project Monitoring Unit) formed as per ORDER of MHRD dtd. 20/11/2017 copy enclosed, and in reference of which I would like to draw your attention to the "POST CONSTRUCTION PHASE" where it is emphasized to include DLP and Operation and Maintenance of Air-Conditioning, Sub-Stations, DG-Sets, Pumps, STP, Electrical Systems, CCTV, External Lighting, Security related equipment etc.

On the onset of the beginning of installation of services in 1500 Auditoriums I would like to emphasized that the above points be adhered to Audio-Visual Systems, ACs and other Services etc. in your terms and conditions such that the Institute will utilize these for **at least 3 years** without any hassle.

The matter is to be treated as urgent.

With regards,

Kamal Bhattacharya

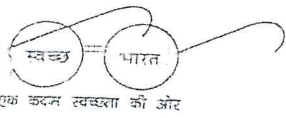
Dean (P & D)

CC: Registrar

2. Director's office for information

3. Shri D.K. Ujjania, SE (CIVIL), Kolkata Electrical Circle -1, CPWD, Nijam Palace 234/4 AJC BOSE ROAD, Kolkata-20

3. Mr. Manish, EE CPWD NIT Campus



सूचना का
अधिकार

MADAN MOHAN
DEPUTY DIRECTOR GENERAL (HE)
TEL: 23381484

भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग
शास्त्री भवन

नई दिल्ली - 110 115

GOVERNMENT OF INDIA

MINISTRY OF HUMAN RESOURCE DEVELOPMENT

DEPARTMENT OF HIGHER EDUCATION

SHASTRI BHAWAN

NEW DELHI-110 115

D.O.No.F.33-1/2018-TS.III (Pt.II)

13th September, 2018

Sir \ Madam,


As you may be aware, the Ministry of Human Resource Development vide its Order dated 20th November, 2017 has constituted a Project Monitoring Unit (PMU) consisting of very senior CPWD engineers / experts to ensure that the constructions in campuses of various Centrally Funded Technical Institutions (CFTIs) including NITs and IEST, Shibpur happens as per the approvals and without time and cost overruns in executing the infrastructure projects.

2. The PMU has prepared a Standard Operating Procedure (SOP) as a guideline to carry out new constitutions. The SOP prepared by the PMU is self explanatory and a copy of the same is attached for ready reference.

3. It is requested to use the Standard Operating Procedure as a guideline and complete the constructions / infrastructure projects without time and cost overruns.

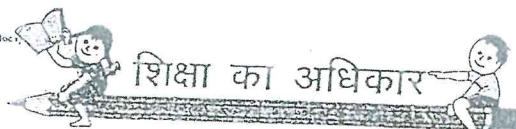
With regards,

Yours sincerely,


[MADAN MOHAN]

Encl.: as above.

The Directors of NITs and
Director, IEST, Shibpur



सर्व शिक्षा अभियान
सब पढ़ें सब बढ़ें

STANDARD OPERATING PROCEDURE

Development /Construction of new educational campuses alongwith associated infrastructure

PRE- CONSTRUCTION PHASE

1. Construction of proper boundary wall, fencing
2. Finalization of Architectural Consultant and PMC by the institute (Follow GFR 2017 and Manual of Appointment of Consultants- issued by Min of Finance
3. Setting up of Institute's Works Division- suitable engineers at various levels
4. Prioritization of buildings to be constructed as per guidelines issued by MHRD
 - Phasing of construction and development works
 - Priority to be given to construction of Hostels, Academic buildings/class rooms, labs and faculty residences
 - Power, water supply, internal roads, lighting and sewage disposal
 - Availability of sanction and funds to be ensured by Institute
5. Need to standardize areas to be constructed. Modular construction for ease of expansion and space re-allocation as per requirements at a later date
6. EIA and approvals from local bodies
7. Preparation of tender document containing specifications, BoQ, contract conditions etc
8. Finalization of 'Good for Construction' (GFC) drawings, duly vetted structural drawings

CONSTRUCTION PHASE

1. Posting of Project team having experienced and competent engineers (civil, electrical etc)
2. Call of tenders from reputed construction agencies
3. Timely award of work following government guidelines, CPWD manuals and codes
4. Making detailed 'Work Construction Plan' jointly- Institute, PMC, Construction agency
5. Periodical monitoring with all stakeholders for coordination- fortnightly
6. Slippages to be identified and corrective action decided timely for compliance
7. Special focus on Quality, Time and Cost- all stakeholders
8. Workers' training at site for skilled jobs- masonry, carpentry, electrical etc
9. Safety of construction workers to be ensured at site alongwith their hygienic living condition
10. Conducting workshops at site on regular intervals- quality, specifications, good engineering practices to be shared
11. 'Third Party Quality Assurance' (TPQA) team to inspect construction on regular intervals and submit findings to PMC and the Institute- No Tolerance for bad work
12. Simultaneous action by Institutes for furniture- class room, labs, hostels, library, dining, kitchen equipments, security- it will avoid delay in occupation of buildings

POST CONSTRUCTION PHASE

1. List of defects to be made jointly at the time of Handing/Taking over of buildings and timeframe for attending to the defects to be drawn up. To be closely monitored
2. Suitable 'Defect Liability Period (DLP)' to be included in contract/agreement
3. Operation and Maintenance also to be included in the original contract for hassle free services from original equipment provider- air-conditioning, sub-stations, DG sets, pumps, STP, electrical systems, CCTV, external lighting, security related equipments etc

123. 122.

Received (Registrar office)
14-07-2018