

**Agenda Notes for  
38<sup>th</sup> Meeting of Building and Works Committee,  
National Institute of Technology, Durgapur**

**Venue:**

**Held online at NIT Durgapur on Tuesday, October 20, 2020 at 11.00 a.m**

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**AGENDA NOTES FOR 38<sup>th</sup> MEETING OF BUILDING AND WORKS COMMITTEE OF  
NIT DURGAPUR .**

Chairman, Building and works committee, National Institute of Technology, Durgapur welcomes the members and special invitees to the 38<sup>th</sup> meeting of the Building and Works Committee.

<b>Item No. 38.1</b>	<b>To confirm the minutes of the 37<sup>th</sup> Meeting of Building and Works Committee (B &amp; WC) held on 06<sup>th</sup> December, 2019 (FRIDAY) At Kolkata Extension Centre, IIT Kharagpur, H. C. BLOCK, Sector – III, Salt Lake City, Kolkata – 700 106.</b>
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The minute was sent to all members. **(Annexure 38.1)**

<b>Item No. 38.2</b>	<b>To note down the action taken on items resolved in 37<sup>th</sup> Building and Works Committee (B&amp;WC) held on 06<sup>th</sup> December, 2019.</b>
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<b>Item No.</b>	<b>Agenda Points</b>	<b>Action Taken</b>
<b>34.2</b>	<b>#33.2/...../29.3 Lifts of 740 Boys' Hostel</b> The issues have been discussed in detail. The Estate Section is asked to take necessary steps in consultation with CPWD to look into the matters of AMC with the parties & make the lifts operational by 15.12.2019.	Estate section shall submit a report on this in the next meeting of B&WC.
	<b>#33.2/...../#29.14 Progress of Boundary Wall and peripheral road.</b> CPWD is requested to complete the remaining work at the earliest.	Work order issued for balance work; work is in progress. Site handover to be arranged by I/C (Estate).
	<b>#33.2/...../#30.3 a) Addressing functional deficiencies of New Guest House.</b> AMC for AC, TV, Landline to be done by Estate Section. All the suites will be provided with low end specs computer, Dr. Anirban Sarkar will take needful action in this regard.  05 nos. lounge to be furnished by CPWD. Lounges to be developed in 2 floors.  5 nos. of low end computers will be arranged in selected locations in open spaces.	The concerned persons are requested to deliberate on the developments & take necessary steps urgently.
	<b>#33.2/...../#30.8 Augmentation of Civil, Electrical and visibility capacity with Audio systems of</b>	Procedure for handing over is in progress.

	<p><b>Lecture Halls and Lecture Galleries of old Academic Block.</b></p> <p>Furniture to be installed in the lecture halls &amp; galleries.</p>	
	<p><b>#33.2/...../#30.9 Yearly maintenance of the campus.</b></p> <p>Communication to be made with CPWD once again in this regard.</p>	CPWD has not yet intimated its decision to take over the yearly maintenance of the campus.
	<p><b>#33.2/...../#30.11 Underground Sewer lines</b></p> <p>Noted that five locations for public urinals &amp; toilet earmarked by the Estate Section and work will be started shortly by CPWD.</p>	Tender to be called after finalization of location of sewer lines.
	<p><b>#33.2/...../#30.16 a) Structural Shed of Mechanical Engineering Dept.</b></p> <p>Noted that according to CPWD, 95% work completed. Remaining will be completed shortly.</p>	The structural shed of ME Dept. has been completed. Handing / taking over of the same is under process.
	<p><b>#33.2/#30.16 (b) Renovation of Central Library: PE = Rs. 5.6016cr.</b></p> <p>Renovation works in 2<sup>nd</sup> floor completed. Lift structure completed.</p> <p>Hand over is expected to be made in February, 2020.</p>	CPWD is asked to expedite the completion of the renovation works.
	<p><b>#33.2/#32.4 Renovation of Old Hostels: PE = Rs. 20.8424 Cr.</b></p> <p>The item has been approved in the 44<sup>th</sup> FC &amp; the 49<sup>th</sup> BOG meetings.</p>	The work can be taken up after sanction of the fund proposed under budget of 2020-21 & 2021-22.
	<p><b>#33.2/#32.5 Automation and Provision of LAN using OFC for the campus. PE = 5.50955 cr. To be executed as per direction of BOG.</b></p> <p>Noted that the academic area of NITD campus is ready with 10GBPS line. ERP is expected to be operational by March 2020.</p>	Noted.
	<p><b>#33.2/#32.6 + #32.10 Renovation of Campus Road (Concrete and flexible-Bituminous). PE = Rs.330.191 L.</b></p> <p>Comprehensive plan of covered drainage system within the campus, together with STP is proposed to be prepared &amp; placed in B&amp;WC. CPWD will be asked to submit PE.</p> <p>CPWD is to prepare a plan for rainwater harvesting within the campus.</p>	As desired by CPWD, NIT authority shall intimate a date for discussion with STP consultant.

	<p><b>#33.2/#32.13 Renovation of Main Gate and North Gate</b>  Noted that :  Main Gate – Structure Completed.  North Gate – Work will be started shortly.</p>	CPWD must initiate the work without any further delay.
	<p><b>#33.2/#32.15 A New Stair Case by dismantling the old narrow stair case in Chemical Engineering Department.</b>  Renovation of the item has been considered under EWS grant.</p>	CPWD is to consider this under EWS items.
	<p><b>#32.17 Beautification of Pond area and Landscaping of the Campus.</b>  PE of similar work for an amount of Rs. 2.00 cr. (approx..) is already available from CPWD &amp; selected part of the same may be taken up for approval of FC &amp; BOG through Chairman (Planning).</p>	Chairman (Planning) to initiate.
	<p><b>#34.2/# 33.4 CONSTRUCTION OF A G+10 Stories Central Research and Academic Building.</b>  Work will be awarded shortly within December, 2019.</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.
34.4	<p><b>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:</b></p> <p>The positions of lifts for MAB, ECE Dept. &amp; CSE Dept. were noted &amp; approved</p> <p>Work will start in the site for Main Academic Building after necessary site clearance. Estate Section to initiate necessary follow up action at the earliest.</p>	<p>Work is under progress in all the three sites for lifts.</p> <p>After finalization temporary ramps works in progress.</p> <p>Work for PWD student's toilet is in progress.</p> <p>CPWD has made a sample for demo purpose for feasibility of temporary ramp connectivity for PWD persons for access to teaching &amp; laboratory instruction floors. However inspection of the sample reveals that there is a hindrance to the normal movement in</p>



		the corridor. Hence it is suggested that movable lift for PWD persons shall be arranged 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.
<b>34.5</b>	<b>Internal Renovation of Staff Quarters</b>  Noted that work is in progress.	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.
<b>34.7</b>	<b>Installation of AC Power Lines in New Academic Block.</b>  Work is completed, as reported by CPWD.	Noted.
<b>35.3</b>	<b>Progress of Various Ongoing Projects:</b>  The comparative statement as of May 2019 is attached <b>(MRP, ANNEXURE - 35.3, pp. A - 25)</b> . It is noted that the physical progress of many projects during May-April 2019 is nominal.  There are few projects namely 1250 Boys' Hostel, Under Ground Sewer Line, Boundary Wall, Concrete and Flexible Pavement etc. are almost completed however, CPWD is unable to hand them over to NIT.  The monthly progress report for May 2019 is attached <b>(Annexure - 35.4 pp. A 26-31)</b> for appraisal.	CPWD is asked to expedite the completion of all projects and completion of formalities in connection with official handover of the said projects.
<b>35.4</b>	<b>Augmentation of Space of CSE Department:</b>  Due to problems in technical feasibility of the present proposal, CPWD has been assigned the job as per the original proposal vide 34.6 & according to the minutes of 35 <sup>th</sup> B&WC (#35.4) & subsequent approval from 49 <sup>th</sup> FC (#49.04-01) & 54 <sup>th</sup> BOG (#54.03). The A/A & E/S of P.E. for "Augmentation of Space of CSE Department by construction of Shed over the roof of Chemistry Department at NIT Durgapur(W.B.)" of Rs.	Work in progress.

	<p>1,68,86,000/- (incl. 3% Contingencies) has been awarded to CPWD. Along with the same, 33% of the P.E. amounting to Rs.55,72,380/- only has been sanctioned as per the norms.</p> <p>The work is considered under EWS.</p>	
<b>35.5</b>	<p><b>Augmentation of Space of ECE Department:</b></p> <p>No further consideration is to be made as a lecture gallery in the 2<sup>nd</sup> floor of D. M. Sen Auditorium building is going to be allotted to ECE Department.</p>	Noted.
<b>35.6</b>	<p><b>Construction of EE Measurement Laboratory</b></p> <p>The existing single storey laboratory is having provision for another storey having area = 21m x 15m. It is planned to have a frame structure with brick wall having structural shed at top. PE will be submitted in the next B&amp;WC.</p> <p>Placed for approval.</p>	Work in progress.
<b>36.1</b>	<p><b>Confirmation of the minutes of the 35<sup>th</sup> B&amp;WC held on June 18, 2019 at CSIR-CGCRI Guest House, Kolkata</b></p>	Noted.
<b>36.3</b>	<p><b>Progress of Various Ongoing Projects</b></p> <p>Noted that:</p> <p>1) Sewer line to be considered in all buildings presently served with septic tank.</p> <p>(Academic Building, Workshop, D Sen hall, ECE, CSE, Biotech, S N Ray, Mathematics, Old Guest House, North Guest House, LS type quarter, G+1, G+8).</p>	CPWD is reminded to take up the sewer line connectivity of the said project under the ongoing project of the same head.
<b>36.4</b>	<p><b>Construction of EE Measurement Laboratory</b></p> <p>CPWD is requested to assess the condition of the existing structure &amp; accordingly decide the form of structural shed within the approved amount of P.E. of Rs.1,61,68,000/-only incl. 3% Contingencies.</p> <p>The work is considered under EWS.</p>	Work in progress.
<b>36.5</b>	<p><b>Air Conditioning of New Academic Block (NAB)</b></p> <p>Tendering is under process.</p>	CPWD has made inordinate delay in carrying out the said work. It has been asked to take urgent measures for completion of the project.
<b>36.6</b>	<p><b>The revised architectural plan of Utkarsha Bhavan</b></p>	Reported earlier.

	Accepted.  Work will be awarded shortly within December, 2019.	
<b>37.3</b>	<p><b>Progress of Various Ongoing Projects:</b></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> <ul style="list-style-type: none"> <li>(i) 1500 capacity auditorium</li> <li>(ii) Raising of boundary wall</li> <li>(iii) Renovation of sewer line</li> <li>(iv) Construction of conference &amp; faculty rooms in the 2<sup>nd</sup> floor of ME Dept.</li> <li>(v) Civil &amp; electrical renovation including lift of central library.</li> <li>(vi) Augmentation of civil, electrical &amp; audio-visual capacity including replacement of furniture of LH &amp; LG of main academic building of NIT Durgapur.</li> <li>(vii) Central Research Laboratory (Utkarsha Bhavan)</li> <li>(viii) 2nos. of toilet for PWD students</li> <li>(ix) Internal renovation of 55 nos. LM type quarters.</li> <li>(x)</li> </ul> <p>CPWD is requested to expedite the completion of the projects as per the schedule.</p>	<p>(a) Formal hand over is not complete.</p> <p>(b) (i) AC is not working. Video is not complete. Not ready for handover as per the scope &amp; 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>
<b>37.4</b>	<p><b>Construction of Vertical Extension of Thermal Engg. Lab.</b></p> <p>The proposal is accepted in principle. It is to be considered under EWS scheme.</p> <p>The P.E. is to be submitted by CPWD.</p>	To be taken up in Agenda # 38.6
<b>37.5</b>	<p><b>Special Infrastructure Development Project – 1 : Electrical sciences building &amp; furniture</b></p> <p>The proposal is accepted in principle.</p> <p>The P.E. is to be submitted by CPWD.</p>	PE will be submitted by CPWD.
<b>37.6</b>	<p><b>Special Infrastructure Development Project – 2 : Smart Card</b></p> <p>The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute.</p>	Chairman (Planning) to initiate.

	It may be taken up by Chairman (Planning) for further processing.	
<b>37.7</b>	<b>Special Infrastructure Development Project – 3 : Smart Water Management</b>  The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.	Chairman (Planning) to initiate.
<b>37.8</b>	<b>Special Infrastructure Development Project – 4 : Smart Electricity Management</b>  The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.	Chairman (Planning) to initiate.
<b>37.9</b>	<b>Special Infrastructure Development Project – 5 : Smart Monitoring of Building</b>  The proposal may be submitted as a project in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.	Chairman (Planning) to initiate.
<b>37.10</b>	<b>Special Infrastructure Development Project – 6 : Smart Waste Management</b>  The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.	Chairman (Planning) to initiate.
<b>37.11</b>	<b>Mechanization of Kitchen &amp; Modernization of dining halls with furniture.</b>  The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.	To be taken up in Agenda # 38.7
<b>37.12</b>	<b>Expansion &amp; refurbishing of laboratories, academic departments &amp; classrooms.</b>  The proposal is accepted in principle. It is to be considered under EWS scheme.  The P.E. submitted by CPWD is found to be not in order & it is to be resubmitted by them.	To be taken up in Agenda # 38.8
<b>37.13</b>	<b>Campus illumination.</b>  The proposal is accepted in principle. P.E. to be submitted by CPWD.	Estimate will be submitted by CPWD after discussion with I/C (Estate).

<b>37.14</b>	<b>Comprehensive parking facilities.</b>  The proposal is accepted in principle.  Parking for cars & 2-wheelers on the left hand side of the main gate of entrance to the campus is to be considered first. P.E. to be submitted by CPWD.	CPWD has submitted a P.E. of Rs. 1,39,49,000/- i/c Contingencies  The project is considered in item no. 38.5.
<b>37.15</b>	<b>Electronic surveillance with optic fibre layout for the campus.</b>  The proposal is accepted in principle. P.E. to be submitted by CPWD.	CPWD has submitted a P.E. of Rs. 1,81,58,117/- i/c Contingencies.  The project will be considered later.
<b>37.16</b>	<b>Extension Centre (Kolkata campus) (2000 sqm)</b>  An amount of Rs.15 Cr. has been considered in the Budget for 2020-21 for purchase of land. Till the construction comes up, suitable rental accommodation may be explored. Chairman (planning) shall coordinate in this regard.	Chairman (Planning) to report on the same.
<b>37.17</b>	<b>Children's park</b>  The proposal is accepted in principle. However, it may be grouped centrally under amenities. P.E. to be submitted by CPWD.	NIT residents to be consulted in this regard. CPWD may consult with Prof. N. B. Hui, Member PMQCC, in this regard.
<b>37.18</b>	<b>Centralised water (drinking) purification plant</b>  The proposal is accepted in principle. However, it may be grouped centrally under amenities. P.E. to be submitted by CPWD.	Kept in abeyance at present.
<b>37.19</b>	<b>Landscaping &amp; horticulture</b>  The proposal is accepted in principle. To be discussed in the next B&WC for provision of funding the project.	CPWD may submit a revised estimate.
<b>37.20</b>	<b>Requirement of additional fund for completion of the 1500 capacity auditorium.</b>  It is noted that in view of the sanctioned amount of Rs.26.78 Cr & the amount deposited with CPWD till date being Rs. 22.40 Cr., the total balance amount for the project is Rs. 4.38 Cr.  Considering the present stage of progress of work, arrangement may be made for release of an adequate amount of fund to CPWD.	To be placed in the next meeting.

<b>37.21</b>	<b>Relaying &amp; renovation of sewer line in NIT campus.</b>  Balance fund available in the sanctioned amount for the project may be utilized to cover the suggested and similar area in the campus to be joined with the newly renovated sewer network.  Route of laying sewer in & around academic buildings may be planned in consultation with Computer Centre to keep the underground OFC undisturbed as far as possible. Necessary communication to CPWD for further work may be given soon.	Already discussed under 36.3.
<b>37.22</b>	<b>Any other matter with the permission of chair</b> I. Rooftop installation of solar panels in selected areas of the campus is accepted in principle. It may be taken up by Chairman (Planning) for further processing.  II. CPWD is to supply information regarding maintenance set up of the 1500 capacity auditorium.  III. Arrangements to be made for shifting of 2 <sup>nd</sup> & 3 <sup>rd</sup> year B.Tech students to the 1250 seater boys' hostel at the earliest by the Institute.  IV. Arrangement for providing AC units in academic buildings to be taken up soon.	Chairman (Planning) has initiated the process.  Report is awaited from CPWD.  Concerned section must take immediate steps for shifting of the students for using hostel & dining facilities.  Chairman (Planning) to coordinate.

<b>Item No. 38.3</b>	<b>Progress of Various Ongoing Projects:</b>
	a) Handing over process of 1250 seater boys' hostel is continuing. b) Work is in progress for several ongoing projects as mentioned below: I. 1500 capacity auditorium II. Renovation of sewer line III. Civil & electrical renovation including lift of central library. IV. Augmentation of civil, electrical & audio-visual capacity including replacement of furniture of LH & LG of main academic building of NIT Durgapur. V. Central Research Laboratory (Utkarsha Bhavan)(under HEFA) VI. 2nos. of toilet for PWD students VII. Internal renovation of 55 nos. LM type quarters.

<b>Item No. 38.4</b>	<p><b>Provision of fund for the 1500 capacity auditorium.</b></p> <p>CPWD [vide letter no. 54(8) SE/Durgapur/CPWD/2020/61, dt. 21.02.2020] <b>(Annexure 38.2)</b> 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"> <li>I. Introduction of GST from 1<sup>st</sup> July, 2017.</li> <li>II. Installation of projector of minimum 20000 lumens (as recommended by PMU team) as against 12000 lumens originally considered.</li> <li>III. Podium fitted with touch screen for Wacom &amp; on screen writing facility with digital pen, feed to be connected to the projector.</li> <li>IV. Document camera.</li> <li>V. 90"LED TVs (2 nos.) inside the auditorium for facilitating better view for the audience at the back.</li> <li>VI. Movable lift (2 nos.) for PWD &amp; wheelchair bound people, for access to stage.</li> </ol> <p>Apart from the demand of Rs.1.22 Cr. which includes item nos. (i) &amp; (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>
<b>Item No. 38.5</b>	<p><b>Comprehensive parking facilities in NIT campus.</b></p> <p>The proposal was accepted in principle ( #37.15). CPWD submitted a P.E. of Rs. 1, 39, 49,000/- i/c contingencies. <b>(Annexure 38.3)</b> The work may be carried out on a priority basis &amp; 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>
<b>Item No. 38.6</b>	<p><b>Construction of Vertical Extension of Thermal Engg. Lab.</b></p> <p>The proposal was accepted in principle under <b>EWS</b> 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. <b>(Annexure – 38.4).</b></p> <p>Placed for approval of the P.E.</p>

<b>Item No. 38.7</b>	<p><b>Mechanization of Kitchen &amp; Modernization of dining halls with furniture.</b></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 <b>(Annexure – 38.5).</b></p> <p>Placed for consideration of the project under <b>EWS</b> and approval of the P.E.</p>
<b>Item No. 38.8</b>	<p><b>Expansion &amp; refurbishing of laboratories, academic departments &amp; classrooms.</b></p> <p>The proposal was accepted in principle (# 37.12) under <b>EWS</b> scheme.</p> <p>The P.E. submitted by CPWD was found to be not in order &amp; was to be resubmitted by them.</p> <p>CPWD has submitted a P.E. of Rs.8,04,89,368/- i/c Contingencies <b>(Annexure – 38.6)</b> 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 &amp; a sum of Rs. 2.00 cr. Is proposed to be kept for networking facilities.</p> <p>Placed for approval of the P.E.</p>
<b>Item No. 38.9</b>	<p><b>Construction of Vertical Extension of the IT building (previous Administrative building)</b></p> <p>The Institute is suffering from an acute crunch in space for academic &amp; 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 <b>EWS</b> scheme.</p> <p>The P.E. of Rs 4,63,59,000/- has been submitted by CPWD <b>(Annexure – 38.7)..</b></p> <p>Placed for approval of the project and the P.E.</p>
<b>Item No. 38.10</b>	<p><b>Completion of the top two floors of Sarojini Naidu Hall of Residence including the interiors</b></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</p>



	<p>handed over to the Institute as the fund allocated was fully spent for students' accommodation.</p> <p>Due to the Covid-19 pandemic, the hostel accommodation will need a rethink towards 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 <b>EWS</b> scheme.</p> <p>The P.E. of Rs 2,22,69,500/- has been submitted by CPWD (<b>Annexure – 38.8</b>)..</p> <p>Placed for approval of the project and the P.E.</p>
<b>Item No. 38.11</b>	<p><b>Extension of sewer line including toilet blocks at NIT Campus,</b></p> <p>Relaying &amp; renovation of sewer lines of the academic block (old &amp; new), library, S. N. Ray Memorial building &amp; 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 &amp; accepted in principle (# 37.21). It is proposed to complete these works from the <b>EWS</b> 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 (<b>Annexure – 38.9</b>)..</p> <p>Placed for approval of the project and the P.E.</p>
<b>Item No. 38.12</b>	<p><b>Consideration of defect liability period (DLP) for projects under CPWD</b></p> <p>A letter No. Dean(P&amp;D)/cv01/AUDITORIUM/2019/1/243/2, dt. 08.01.2019 (<b>Annexures 38.10 &amp; 38.11</b>) from the then Dean (P&amp;D) &amp; addressed to the CPWD regarding DLP &amp; maintenance cum operation, communicated to CPWD that post construction phase, DLP &amp; operation &amp; maintenance of AC, sub-stations, DG sets, pumps, electrical systems, lifts, external lighting, security related equipment, &amp; also to be adhered to audio-visual systems &amp; other services such that 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.</p>
<b>Item No. 38.13</b>	<p><b>No objection certificate (NOC) for fire-fighting set up regarding handing / taking over of construction projects</b></p> <p>CPWD must provide status of the same to avoid delay in completion of the hand over process of construction projects.</p>

<b>Item No. 38.14</b>	<b>Fund utilization certificate for completed works from CPWD</b> CPWD must provide fund utilization certificates for all projects to NIT Durgapur.
<b>Item No. 38.15</b>	<b>Any other matter with permission of Chair.</b>

**Registrar**

**DIRECTOR**

### **ANNEXURES**

- 38.1 Minutes of the 37th Meeting of B&WC
- 38.2 Letter no. 54(8) SE/Durgapur/CPWD/2020/61, dt. 21.02.2020
- 38.3 P.E. submitted by CPWD regarding comprehensive parking facilities.
- 38.4 P.E. submitted by CPWD regarding construction of vertical extension of Thermal Engg. Lab.
- 38.5 P.E. submitted by CPWD regarding mechanization of kitchen & modernization of dining halls with furniture.
- 38.6 P.E. submitted by CPWD regarding expansion & refurbishing of laboratories, academic departments & classrooms.
- 38.7 P.E. submitted by CPWD regarding construction of Vertical Extension of the IT building (previous Administrative building)
- 38.8 P.E. submitted by CPWD regarding completion of the top two floors of Sarojini Naidu Hall of Residence including the interiors
- 38.9 P.E. submitted by CPWD regarding extension of sewer line including toilet blocks at NIT Campus.
- 38.10 Letter No. Dean(P&D)/cv01/AUDITORIUM/2019/1/243/2, dt. 08.01.2019
- 38.11 D.O. No. F.33-1/2018-TS.III (Pt.II), dt. 13.09.2018



**MINUTES**  
**37<sup>TH</sup> MEETING**  
**OF**  
**THE**  
**BUILDING & WORKS COMMITTEE**

**VENUE: KOLKATA EXTENSION CENTRE, IIT  
KHARAGPUR, H.C. BLOCK, SECTOR-III, SALT LAKE  
CITY, KOLKATA-700106.**

**DATE: DECEMBER 06<sup>TH</sup>, 2019 (FRIDAY)**

**TIME: 10.30 A.M.**

**NATIONAL INSTITUTE OF TECHNOLOGY  
DURGAPUR**

**Members Present:**

**1. Prof. Anupam Basu,**

Director  
National Institute of Technology  
Durgapur – 713 209

**2. Shri Satyaki Sen,**

Ex. Director, M.N. Dastur and  
Nominee of BOG, NIT Durgapur  
CJ 84, Sector – 2, Saltlake City,  
Kolkata – 700 091

**3. Prof. N. K. Roy,**

Department of Electrical Engineering  
Chairman Planning,  
National Institute of Technology Durgapur,  
Durgapur – 713 209.

**4. Prof. S. Bhattacharyya,**

Department of Civil Engineering  
Chairman Construction,  
National Institute of Technology Durgapur,  
Durgapur – 713 209.

**5. Prof. S. Saha,**

Department of Civil Engineering  
Chairman Maintenance & Campus Facilities,  
National Institute of Technology Durgapur,  
Durgapur – 713 209.

**6. Prof. A. K. Banik,**

Department of Civil Engineering  
Chairman & Convenor of PMQCC,  
National Institute of Technology Durgapur,  
Durgapur – 713 209.

**7. Shri C. P. Sharma,**

(Nominee of CPWD, Civil Wing)  
Superintendent Engineer (Civil),  
NIT Durgapur, Durgapur - 713209.

**8. Shri Soumya Sen Sharma**

Registrar,  
National Institute of Technology Durgapur,  
Durgapur – 713209.

**9. Dr. Anirban Sarkar – Special Invitee**

Department of CSE  
HOD Computer Centre  
National Institute of Technology Durgapur,  
Durgapur – 713 209.

The Representatives of MHRD, New Delhi and IFD, MHRD New Delhi couldn't attend the meeting.



At the beginning of the 37<sup>th</sup> B&WC meeting, The Chairman of the committee has expressed warm welcome to the members and thanks all of them for their keen interest towards the infrastructural development programme of the Institute.

Item No.	Item	Resolution
37.1	To confirm the minutes of the 36 <sup>th</sup> meeting of Building and Works Committee (B&WC) held on August 26 <sup>th</sup> , 2019 (Monday) at CSIR –CGCRI Guest House, Opposite Buddha Mandir, Dhakuria Lake, Kolkata.	Confirmed
Item No. 37.2	To note down the action taken on items resolved in 35 <sup>th</sup> Building and Works Committee (B&WC) held on 18th June 2019 (Tuesday) & 36 <sup>th</sup> B&WC held on 26 <sup>th</sup> August 2019.	
34.2	<p><b>#33.2/...../29.3 Lifts of 740 Boys' Hostel</b>  All 05 passengers' lifts handed over by CPWD out of which 03 numbers are under AMC by the Institute and 02 numbers under warranty period.  As per available information from Maintenance Section none of the lifts are operational in spite of repeated complaints to lift manufacturers who has been awarded the AMC contract. CPWD is requested to intervene since they have awarded the contract for installation of lifts under their terms &amp; conditions.  An alternative measures may be suggested by CPWD for AMC contract other than manufacturer as per prevailing rules &amp; regulations.</p>	The issues have been discussed in detail. The Estate Section is asked to take necessary steps in consultation with CPWD to look into the matters of AMC with the parties & make the lifts operational by 15.12.2019.
	<p><b>#33.2/...../29.14 Progress of Boundary Wall and peripheral road.</b>  The main work of boundary wall and peripheral road is mostly completed. For completion of the remaining part CPWD needs communication from NIT Durgapur.</p>	CPWD is requested to complete the remaining work at the earliest.
	<p><b>#33.2/...../30.3 a) Addressing functional deficiencies of New Guest House.</b>  All functional deficiencies has been addressed. AMC is required for all the services installed for smooth functioning &amp; longevity.</p>	<p>AMC for AC, TV, Landline to be done by Estate Section.  All the suites will be provided with low end specs computer, Dr. Anirban Sarkar will take needful action in this regard.  05 nos. lounge to be furnished by CPWD.</p> <p>Lounges to be developed in 2 floors.  5 nos. of low end computers will be arranged in selected locations in open spaces.</p>
	<p><b>#33.2/...../30.8 Augmentation of Civil, Electrical and visibility capacity with Audio systems of Lecture Halls and Lecture Galleries of old Academic Block.</b></p> <p>Work Done in LH-12, 21, 31, 32, 33,34 and LG-11, 12, 13, 14, 23, 24, 21, 22, &amp; 31 (11 Nos.).  Work left over / not completed in LH-14, 15 &amp; C-1 (03 Nos.) which will be handed over to CPWD on 25.11.2019.</p>	Furniture to be installed.

	<b>33.2/...../30.9 Yearly maintenance of the campus.</b> With the work value around Rs. 360 L, the Institute has been finding it difficult to arrange for adequate overall maintenance of the campus.	Communication to be made with CPWD once again in this regard.
	<b>33.2/...../30.10 External painting of quarters</b>	Completed.
	<b>33.2/...../30.11 Underground Sewer lines</b> Five locations for public urinals & toilet earmarked by the Estate Section and work will be started shortly by CPWD.	Noted.
	<b>33.2/...../30.16 a) Structural Shed of Mechanical Engineering Dept.</b> According to CPWD, 95% work completed. Remaining will be completed shortly.	Noted.
	<b>33.2/30.16 (b) Renovation of Central Library: PE = Rs. 5.6016cr.</b> The work is under progress.	Renovation works in 2 <sup>nd</sup> floor completed. Lift structure completed.  Hand over is expected to be made in February, 2020.
	<b>33.2/31.5 a2) Cleaning of all Septic Tanks of Hostel.</b> Completed.	Noted.
	<b>33.2/32.4 Renovation of Old Hostels: PE = Rs. 20.8424cr</b> Taken up as a fresh item in the BWC agenda.	The above work is resubmitted in the budget estimate for the financial year 2020-2021.
	<b>33.2/32.5 Automation and Provision of LAN using OFC for the campus. PE = 5.50955 cr. To be executed as per direction of BOG.</b> The status is given in the Annexure.	Noted that the academic area of NITD campus is ready with 10GBPS line. ERP is expected to be operational by March 2020.
	<b>33.2/32.6 + 32.10 Renovation of Campus Road (Concrete and flexible-Bituminous). PE = Rs.330.191 L.</b> Completed. Drainage system may be discussed under any other matter.	Noted. Comprehensive plan of covered drainage system within the campus, together with STP is proposed to be prepared & placed in B&WC. CPWD will be asked to submit PE. CPWD is to prepare a plan for rainwater harvesting within the campus.
	<b>33.2/32.13 Renovation of Main Gate and North Gate</b> Main Gate – Structure Completed. North Gate – Work will be started shortly.	Noted.
	<b>33.2/32.15 A New Stair Case by dismantling the old narrow stair case in Chemical Engineering Department.</b> Renovation of the item has been considered under EWS grant.	May be considered outside EWS under OH35.
	<b>32.17 Beautification of Pond area and Landscaping of the Campus.</b> To be taken up under the newly proposed scheme for landscaping & horticulture of the campus.	PE of similar work for an amount of Rs. 2.00 cr. (approx..) is already available from CPWD & selected part of the same may be taken up for approval of FC & BOG through Chairman (Planning).
	<b>34.2/33.4 CONSTRUCTION OF A G+10 Stories Central Research and</b>	Work will be awarded



	<p><b>Academic Building.</b> Project taken under HEFA. Piling work completed. Site inspection completed. Structural drawing and preparation of tender for this work has been called for 3<sup>rd</sup> time after necessary modification including centralized AC system. Technical bid opened. Work will be awarded tentatively by mid of November 2019.</p>	shortly within December, 2019.
34.4	<p><b>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:</b> Position of lifts: Main Academic Building – Left flank of Main Academic Building (east Side). Work will start after necessary procedures are followed for site clearance by the Estate Section.</p> <p>ECE Department – Access to the top floor of the D. M. Sen Auditorium building is difficult to be made directly as per CPWD. To provide an access to the top floor of the building &amp; also to the ECE block, the lift is to be located in the common place between these two buildings for which technical feasibility has been studied by CPWD. This site will serve the desired purpose of ECE dept. to use the lecture gallery in the second floor of D.M.Sen Auditorium building. Corridors in different floors of ECE building will be given access to this lift so that the same can be used by PWD students for both the buildings.</p> <p>CSE Department – Back side of the building.</p> <p>Toilets: Positions shown to CPWD by the Estate Section.</p>	<p>Noted &amp; approved.</p> <p>Work will start in the site for Main Academic Building after necessary site clearance. Estate Section to initiate necessary follow up action at the earliest.</p>
34.5	<p><b>Internal Renovation of Staff Quarters.</b> Work is in progress.</p>	Noted.
34.6	<p><b>Augmentation of Space of CSE Department.</b> May be referred in 35.4.</p>	Noted.
34.7	<p><b>Installation of AC Power Lines in New Academic Block.</b> Work is in progress.</p>	Work is completed, as reported by CPWD.
35.3	<p><b>Progress of Various Ongoing Projects:</b> The comparative statement as of May 2019 is attached (MRP, ANNEXURE - 35.3, pp. A - 25). It is noted that the physical progress of many projects during May-April 2019 is nominal. There are few projects namely 1250 Boys' Hostel, Under Ground Sewer Line, Boundary Wall, Concrete and Flexible Pavement etc. are almost completed however, CPWD is unable to hand them over to NIT. The monthly progress report for May 2019 is attached (Annexure – 35.4 pp. A 26-31) for appraisal.</p>	Noted.
35.4	<p><b>Augmentation of Space of CSE Department:</b> It is proposed that (keeping in mind the structural strength of the existing building) a prefab light weight Container Type Structure with False Ceiling and partition walls as per client's choice to be placed at the roof of the department (about 12m above from ground) which will be faster than the traditional brick wall with structural shed. If CPWD is carry out the task in time, work may be awarded to them, otherwise the Institute will proceed as per procurement rule. Roof area of the building = 600 sqm. After obtaining the PE, the Institute may proceed on carrying out the job subject to the ratification from B&amp;WC and Board later. Placed for consideration.</p>	<p>Due to problems in technical feasibility of the present proposal, CPWD has been assigned the job as per the original proposal vide 34.6 &amp; according to the minutes of 35<sup>th</sup> B&amp;WC (#35.4) &amp; subsequent approval from 49<sup>th</sup> FC (#49.04-01) &amp; 54<sup>th</sup> BOG (#54.03). The A/A &amp; E/S of P.E. for "Augmentation of Space of CSE Department by construction of Shed over the roof of Chemistry Department at NIT Durgapur(W.B.)" of Rs. 1,68,86,000/- (incl. 3% Contingencies) has been awarded to CPWD. Along</p>

		with the same, 33% of the P.E. amounting to Rs.55,72,380/- only has been sanctioned as per the norms.  The work is considered under EWS.
35.5	<b>Augmentation of Space of ECE Department:</b> As stated in #35.4 space augmentation of ECE Department will be carried out in similar way. Placed for consideration.	No further consideration is to be made as a lecture gallery in the 2 <sup>nd</sup> floor of D. M. Sen Auditorium building is going to be allotted to ECE Department.
35.6	<b>Construction of EE Measurement Laboratory</b> The existing single storey laboratory is having provision for another storey having area = 21m x 15m. It is planned to have a frame structure with brick wall having structural shed at top. PE will be submitted in the next B&WC. Placed for approval.	Mentioned & considered in 36.4.
36.1	<b>Confirmation of the minutes of the 35<sup>th</sup> B&amp;WC held on June 18, 2019 at CSIR-CGCRI Guest House, Kolkata.</b> Confirmed.	Noted.
36.3	<b>Progress of Various Ongoing Projects</b> 1) Rectification work in progress. 2) Sewer line to be considered in all buildings presently served with septic tank. (Academic Building, Workshop, D Sen hall, ECE, CSE, Biotech, S N Ray, Mathematics, Old Guest House, North Guest House, LS type quarter, G+1, G+8).	Noted.
36.4	<b>Construction of EE Measurement Laboratory</b> CPWD has been assigned the job as per the minutes of 36 <sup>th</sup> B&WC (#36.4) and subsequent approval from 49 <sup>th</sup> F.C. (#49.04-02) and 54 <sup>th</sup> BoG (#54.03) the A/A and E/S of P.E. for 'Construction of EE Measurement Laboratory through Vertical Extension of Electrical Engineering Lab at NIT Durgapur (W.B.)' of Rs.1,61,68,000/- (Rs. One Crore Sixty One Lakh and Sixty Eight Thousand only incl. 3% Contingencies) has been awarded to CPWD.	Noted. CPWD is requested to assess the condition of the existing structure & accordingly decide the form of structural shed within the approved amount of P.E. of Rs.1,61,68,000/- only incl. 3% Contingencies. The work is considered under EWS.
36.5	<b>Air Conditioning of New Academic Block (NAB)</b>	Tendering is under process.
36.6	<b>The revised architectural plan of Utkarsha Bhavan</b>	Accepted. Work will be awarded shortly within December, 2019.

Item No.	Item	Action Taken
37.3	<b>Progress of Various Ongoing Projects:</b> (a) Construction of main entrance gate is completed. (b) Handing over process of 1250 seater boys' hostel is continuing. (c) Work is in progress for several ongoing projects as mentioned below: (i) 1500 capacity auditorium (ii) Raising of boundary wall (iii) Renovation of sewer line (iv) Construction of conference & faculty rooms in the 2 <sup>nd</sup>	Noted. CPWD is requested to expedite the completion of the projects as per the schedule.



	<p>floor of ME Dept.</p> <p>(v) Civil &amp; electrical renovation including lift of central library.</p> <p>(vi) Augmentation of civil, electrical &amp; audio-visual capacity including replacement of furniture of LH &amp; LG of main academic building of NIT Durgapur.</p> <p>(vii) Central Research Laboratory (Utkarsha Bhavan)</p> <p>(viii) 2nos. of toilet for PWD students</p> <p>(ix) Internal renovation of 55 nos. LM type quarters.</p>	
37.4	<p><b>Construction of Vertical Extension of Thermal Engg. Lab.</b></p> <p>Due to increase in the intake of students in Mechanical Engineering Department, it is proposed for the vertical extension of the present Thermal Engg. (Heat Power) Laboratory (area = 21.4m x 15.4m) by constructing a framed structure with brick wall &amp; having structural shed at the roof.</p> <p>The fund shall be utilized from the grant under EWS by MHRD. An estimated cost for the same has been tentatively considered as Rs. 1.60 crore under the abovementioned grant.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. It is to be considered under EWS scheme. The P.E. is to be submitted by CPWD.</p>
37.5	<p><b>Special Infrastructure Development Project – 1 : Electrical sciences building &amp; furniture</b></p> <p>In view of accommodating the increased intake of students and newly recruited faculty members, it is proposed to provide spaces and furniture for Electrical Sciences building that will serve the departments of EE, ECE &amp; CSE as well as Computer Centre.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 70 crore in the proposed budget provision of 2020-21 to 2022-23.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. The P.E. is to be submitted by CPWD.</p>
37.6	<p><b>Special Infrastructure Development Project – 2 : Smart Card</b></p> <p>For infrastructure development of the campus and better management of the same, smart card system is proposed to be introduced in NIT Durgapur.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 0.19 crore in the proposed budget provision of 2020-21.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.</p>
37.7	<p><b>Special Infrastructure Development Project – 3 : Smart Water Management</b></p> <p>For infrastructure development &amp; better management of water usage in the campus, a scheme is proposed to be introduced in NIT Durgapur.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 1.12 crore in the proposed budget provision of 2020-21.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute.. It may be taken up by Chairman (Planning) for further processing.</p>


37.8	<p><b>Special Infrastructure Development Project – 4 : Smart Electricity Management</b></p> <p>For infrastructure development &amp; better management of usage of electricity in the campus, a scheme is proposed to be introduced in NIT Durgapur.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 0.23 crore in the proposed budget provision of 2020-21.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute.. It may be taken up by Chairman (Planning) for further processing.</p>
37.9	<p><b>Special Infrastructure Development Project – 5 : Smart Monitoring of Building</b></p> <p>For infrastructure development &amp; better energy efficient usage of different buildings in the campus, a scheme is proposed to be introduced in NIT Durgapur.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 0.10 crore in the proposed budget provision of 2020-21.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal may be submitted as a project in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.</p>
37.10	<p><b>Special Infrastructure Development Project – 6 : Smart Waste Management</b></p> <p>For infrastructure development &amp; better management of waste products in the campus, a scheme is proposed to be introduced in NIT Durgapur.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 0.67 crore in the proposed budget provision of 2020-21.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle in connection with Diamond Jubilee Celebrations of the Institute. It may be taken up by Chairman (Planning) for further processing.</p>
37.11	<p><b>Mechanisation of Kitchen &amp; Modernisation of dining halls with furniture.</b></p> <p>For infrastructure development &amp; better management of hostel facilities in the campus, Mechanisation of Kitchen &amp; Modernisation of dining halls with furniture is proposed.</p> <p>The fund shall be utilized from the grant under EWS by MHRD.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 6.50 crore under the abovementioned grant in the proposed budget provision of 2020-21&amp; 2021-22.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. It is to be considered under EWS scheme. The P.E. submitted by CPWD is found to be not in order &amp; it is to be resubmitted by them.</p>
37.12	<p><b>Expansion &amp; refurbishing of laboratories, academic departments &amp; classrooms.</b></p> <p>For infrastructure development &amp; better classroom &amp; laboratory facilities in the academic buildings, Expansion &amp; refurbishing of laboratories, academic departments &amp; classrooms is proposed.</p> <p>The fund shall be utilized from the grant under EWS by MHRD.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 8.60 crore under the abovementioned grant in the proposed budget provision of 2020-21&amp; 2021-22.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. It is to be considered under EWS scheme. The P.E. submitted by CPWD is found to be not in order &amp; it is to be resubmitted by them.</p>
37.13	<p><b>Campus illumination.</b></p>	<p>The proposal is</p>




	<p>For infrastructure development &amp; proper management of safety &amp; security of campus facilities, adequate illumination by energy efficient lamps (including high mast types) is proposed.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 1.20 crore in the proposed budget provision of 2020-21.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>accepted in principle. P.E. to be submitted by CPWD.</p>
<b>37.14</b>	<p><b>Comprehensive parking facilities.</b></p> <p>The campus did not have parking facilities for cars, two-wheelers &amp; cycles. As a result the campus area becomes clumsy during office hours and the residents also face difficulties for unplanned parking of the cars on roads &amp; vacant spaces. To overcome this problem, it is proposed that parking facilities must be provided at different zones of the campus in phases.</p> <p>In the first phase, for better management of the campus, an estimated cost for the same has been tentatively considered as Rs. 1.00 crore in the proposed budget provision of 2020-21.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. Parking for cars &amp; 2-wheelers on the left hand side of the main gate of entrance to the campus is to be considered first. P.E. to be submitted by CPWD.</p>
<b>37.15</b>	<p><b>Electronic surveillance with optic fibre layout for the campus.</b></p> <p>For infrastructure development &amp; proper management of safety &amp; security of campus facilities, adequate electronic surveillance system is proposed for the campus.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 2.00 crore in the proposed budget provision of 2020-21 &amp; 2021-22.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. P.E. to be submitted by CPWD.</p>
<b>37.16</b>	<p><b>Extension Centre (Kolkata campus) (2000 sqm)</b></p> <p>The Institute needs to identify the property for an adequate extension centre in Kolkata to facilitate holding of academic &amp; administrative meetings, campus interviews for our students, organising seminars &amp; conferences and also subletting for meetings when not engaged.</p> <p>CPWD shall evaluate considering the condition of the building and the locality and shall submit tentative cost of rental for the said property.</p> <p>Placed for approval of the proposal.</p>	<p>An amount of Rs.15 Cr. has been considered in the Budget for 2020-21 for purchase of land. Till the construction comes up, suitable rental accommodation may be explored. Chairman (planning) shall coordinate in this regard.</p>
<b>37.17</b>	<p><b>Children's park</b></p> <p>For infrastructure development &amp; improving facilities for campus residents, a children's park is proposed.</p> <p>An estimated cost for the same has been tentatively</p>	<p>The proposal is accepted in principle. However, it may be grouped centrally under amenities. P.E. to be submitted by CPWD.</p>

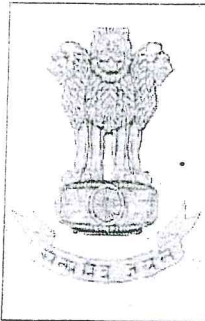
	<p>considered as Rs. 0.25 crore in the proposed budget provision of 2020-21.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	
<b>37.18</b>	<p><b>Centralised water (drinking) purification plant</b></p> <p>For infrastructure development &amp; better management of campus facilities, a centralised water (drinking) purification plant is proposed.</p> <p>An estimated cost for the same has been tentatively considered as Rs. 0.50 crore in the proposed budget provision of 2021-22.</p> <p>CPWD has been asked to submit P.E. for the same.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. However, it may be grouped centrally under amenities. P.E. to be submitted by CPWD.</p>
<b>37.19</b>	<p><b>Landscaping &amp; horticulture</b></p> <p>For better management of campus facilities, development of landscaping &amp; horticulture is proposed for the entire campus.</p> <p>CPWD has submitted a P.E. of a total amount of Rs. 2.0 crore for the same.</p> <p>The same amount has been considered in the proposed budget provision of 2020-21 &amp; 2021-22.</p> <p>Placed for approval of the proposal.</p>	<p>The proposal is accepted in principle. To be discussed in the next B&amp;WC for provision of funding the project.</p>
<b>37.20</b>	<p><b>Requirement of additional fund for completion of the 1500 capacity auditorium.</b></p> <p>The projected cost for the 1500 capacity auditorium (ref. A/A &amp;E/S no. NIL dt. 23.12.2011) was Rs. 26.78 crore.</p> <p>An amount of Rs. 22.40 crore has been deposited with CPWD.</p> <p>The expenditure till date by CPWD is Rs. 23.69 crore.</p> <p>The balance amount of Rs. (26.78 – 23.69 =) 3.09 crore is less by Rs. 1.29 crore from the immediate requirement of fund of Rs. 4.38 crore, as submitted by CPWD, for completion of the project.</p> <p>A tentative estimate of Rs. 1.0 crore is kept in the proposed budget provision of 2020-21.</p> <p>Placed for approval of fund.</p>	<p>It is noted that in view of the sanctioned amount of Rs.26.78 Cr &amp; the amount deposited with CPWD till date being Rs. 22.40 Cr., the total balance amount for the project is Rs. 4.38 Cr. Considering the present stage of progress of work, arrangement may be made for release of an adequate amount of fund to CPWD.</p>
<b>37.21</b>	<p><b>Relaying &amp; renovation of sewer line in NIT campus.</b></p> <p>Relaying &amp; renovation of sewer lines of the academic block (old &amp; new), library, S. N. Ray Memorial building &amp; 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.</p> <p>The projected cost for relaying &amp; renovation of sewer lines (ref.</p>	<p>Balance fund available in the sanctioned amount for the project may be utilized to cover the suggested and similar area in the campus to be joined with the newly renovated sewer network. Route of laying sewer in &amp; around academic buildings may be planned</p>

	<p>A/A &amp;E/S dt. 29.12.2017) was Rs. 6.19 crore.</p> <p>An amount of Rs. 3.10 crore has been deposited with CPWD.</p> <p>The expenditure till date by CPWD is Rs. 2.88 crore.</p> <p>An estimated cost for relaying &amp; renovation of sewer lines in the abovementioned zones has been tentatively considered as Rs. 3.09 crore in the proposed budget provision of 2019-20 &amp; 2020-21.</p> <p>Placed for approval.</p>	<p>in consultation with Computer Centre to keep the underground OFC undisturbed as far as possible. Necessary communication to CPWD for further work may be given soon.</p>
37.22	Any other matter with the permission of chair.	<p>(i) Rooftop installation of solar panels in selected areas of the campus is accepted in principle. It may be taken up by Chairman (Planning) for further processing.</p> <p>(ii) CPWD is to supply information regarding maintenance set up of the 1500 capacity auditorium.</p> <p>(iii) Arrangements to be made for shifting of 2<sup>nd</sup> &amp; 3<sup>rd</sup> year B.Tech students to the 1250 seater boys' hostel at the earliest by the Institute.</p> <p>(iv) Arrangement for providing AC units in academic buildings to be taken up soon.</p>

  
 (Director)  
 Chairman,  
 B&WC, NIT Durgapur

  
 08.02.2020  
 (Registrar)  
 Member Secretary  
 B&WC, NIT 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:-

- (i) In the tender of 2<sup>nd</sup> 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.
- (ii) Because of GST introduced on 1<sup>st</sup> July 2017 there has been an extra expenditure in 1<sup>st</sup> package, items paid on market rates and in 2<sup>nd</sup> package tender rates have also been high due to this.
- (iii) 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

1012 (Estimate)  
or consideration  
next BWC meeting  
Shy 21.02.2020  
Chl (Cint)  
of Durgapur

Recd  
21/02/2020

NO 56(12)/SE/Durgapur/CPWD/2019-20/233 dtd. 8/10/2020



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**

Def 8/10/2020  
AE (Admin)  
SE - 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:** 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-



**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.

  
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- 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
	<b>Grand Total Rs.</b>	<b>12295401.23</b>	<b>1049315.77</b>	<b>13344717.00</b>
	Add EPF @3.34%			<b>445714.00</b>
	Add ESI @1.19%			<b>158802.00</b>
	<b>Grand Total Rs.</b>			<b>13949233.00</b>

Say Rs. 13949000.00


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

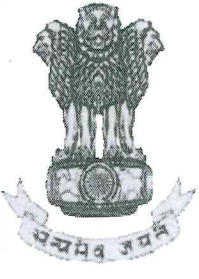

  
(Prakhar Prashant)  
Assistant Executive Engineer

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

Date: - 08/08/2020

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

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

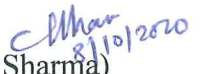
Sir

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).

sd/-  
Assistant Executive Engineer  
NIT Durgapur Division

sd/-  
10/08/20  
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:- 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
	<b>Grand Total Rs.</b>	<b>9811378.48</b>	<b>3664920.52</b>	<b>13476299.00</b>
	Add EPF @3.34%			<b>450108.00</b>
	Add ESI @1.19%			<b>160368.00</b>
	<b>Grand Total Rs.</b>			<b>14086775.00</b>

Say Rs. 14087000.00

(Rupees One Crore Forty Lakh Eighty Seven 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

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

Date: - 8/10/2020

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).

  
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:- 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
	<b>Grand Total Rs.</b>	<b>57761060.00</b>	<b>7220132.00</b>	<b>64981192.00</b>

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 & 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.	<b>4476560.00</b>	<b>559570.00</b>	
	Add Cost Index @ 6% on DPAR-2019				268594.00	33574.00	
	SUB TOTAL Rs.				<b>4745154.00</b>	<b>593144.00</b>	5338298.00
I	Dinning Hall Work				4745154.00	593144.00	5338298.00
	Add contingencies 3%				<b>142355.00</b>	<b>17794.00</b>	<b>160149.00</b>
	Grand Total Rs.				<b>4887509.00</b>	<b>610938.00</b>	<b>5498447.00</b>
	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.				<b>4936384.00</b>	<b>617047.00</b>	<b>5553431.00</b>
	Add EPF @3.34%				<b>164875.00</b>	<b>20609.00</b>	<b>185484.00</b>
	Add ESI @1.19%				<b>58743.00</b>	<b>7343.00</b>	<b>66086.00</b>
	Grand Total Rs.				<b>5160002.00</b>	<b>644999.00</b>	<b>5805001.00</b>

  
(Prakhar Prashant)  
Assistant Executive Engineer

  
(Debasish Mishra)  
Assistant Engineer (E)

  
(Manish Kumar Kanodia)  
Executive Engineer

  
( 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.	<b>4476560.00</b>	<b>559570.00</b>	
	Add Cost Index @ 6% on DPAR-2019				268594.00	33574.00	
				SUB TOTAL Rs.	<b>4745154.00</b>	<b>593144.00</b>	
I	Dinning Hall Work				4745154.00	593144.00	5338298.00
	Add contingencies 3%				<b>142355.00</b>	<b>17794.00</b>	<b>160149.00</b>
	Grand Total Rs.				<b>4887509.00</b>	<b>610938.00</b>	<b>5498447.00</b>
	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.				<b>4936384.00</b>	<b>617047.00</b>	<b>5553431.00</b>
	Add EPF @3.34%				<b>164875.00</b>	<b>20609.00</b>	<b>185484.00</b>
	Add ESI @1.19%				<b>58743.00</b>	<b>7343.00</b>	<b>66086.00</b>
	Grand Total Rs.				<b>5160002.00</b>	<b>644999.00</b>	<b>5805001.00</b>

*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 3**

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments and SS Furniture for hall 3	1.00	L.S.		1913370.00		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		866399.00		As per annexure
	Total Civil				3424769.00		
5)	Providing IEI For laboratories @ 12.5% of A					428096.13	2.3
				Total Rs.	<b>3424769.00</b>	<b>428096.00</b>	
	Add Cost Index @ 6% on DPAR-2019				205486.00	25686.00	
				SUB TOTAL Rs.	<b>3630255.00</b>	<b>453782.00</b>	
I	Dinning Hall Work				3630255.00	453782.00	4084037.00
	Add contingencies 3%				<b>108908.00</b>	<b>13613.00</b>	<b>122521.00</b>
	Grand Total Rs.				<b>3739163.00</b>	<b>467395.00</b>	<b>4206558.00</b>
	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.				<b>3776555.00</b>	<b>472069.00</b>	<b>4248624.00</b>
	Add EPF @3.34%				<b>126137.00</b>	<b>15767.00</b>	<b>141904.00</b>
	Add ESI @1.19%				<b>44941.00</b>	<b>5618.00</b>	<b>50559.00</b>
	Grand Total Rs.				<b>3947633.00</b>	<b>493454.00</b>	<b>4441087.00</b>

(Prakhar Prashant)  
Assistant Executive Engineer

(Debasish Mishra)  
Assistant Engineer (E)


(Manish Kumar Kanodia)  
Executive Engineer


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





**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	
1)	Kitchen Equipments and SS Furniture for hall 4	1.00	L.S.		1913370.00		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		883521.00		As per annexure
	Total Civil				3441891.00		
5)	Providing IEI For laboratories @ 12.5% of A					430236.38	2.3
				Total Rs.	<b>3441891.00</b>	<b>430236.00</b>	
	Add Cost Index @ 6% on DPAR-2019				206513.00	25814.00	
	SUB TOTAL Rs.				<b>3648404.00</b>	<b>456050.00</b>	
I	Dinning Hall Work				3648404.00	456050.00	4104454.00
	Add contingencies 3%				<b>109452.00</b>	<b>13682.00</b>	<b>123134.00</b>
	<b>Grand Total Rs.</b>				<b>3757856.00</b>	<b>469732.00</b>	<b>4227588.00</b>
	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
	<b>Grand Total Rs.</b>				<b>3795435.00</b>	<b>474429.00</b>	<b>4269864.00</b>
	Add EPF @3.34%				<b>126768.00</b>	<b>15846.00</b>	<b>142614.00</b>
	Add ESI @1.19%				<b>45166.00</b>	<b>5646.00</b>	<b>50812.00</b>
	<b>Grand Total Rs.</b>				<b>3967369.00</b>	<b>495921.00</b>	<b>4463290.00</b>

  
(Prakhar Prashant)  
Assistant Executive Engineer

  
(Debasish Mishra)  
Assistant Engineer (E)


  
(Manish Kumar Kanodia)  
Executive Engineer


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





**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 & 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		1255852.00		As per annexure
	Total Civil				4608952.00		
5)	Providing IEI For laboratories @ 12.5% of A					576119.00	2.3
				Total Rs.	<b>4608952.00</b>	<b>576119.00</b>	
	Add Cost Index @ 6% on DPAR-2019				276537.00	34567.00	
				SUB TOTAL Rs.	<b>4885489.00</b>	<b>610686.00</b>	
I	Dinning Hall Work				4885489.00	610686.00	5496175.00
	Add contingencies 3%				<b>146565.00</b>	<b>18321.00</b>	<b>164886.00</b>
	Grand Total Rs.				<b>5032054.00</b>	<b>629007.00</b>	<b>5661061.00</b>
	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.				<b>5082375.00</b>	<b>635297.00</b>	<b>5717672.00</b>
	Add EPF @3.34%				<b>169751.00</b>	<b>21219.00</b>	<b>190970.00</b>
	Add ESI @1.19%				<b>60480.00</b>	<b>7560.00</b>	<b>68040.00</b>
	Grand Total Rs.				<b>5312606.00</b>	<b>664076.00</b>	<b>5976682.00</b>

  
(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 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.	<b>2626188.00</b>	<b>328274.00</b>	
	Add Cost Index @ 6% on DPAR-2019				157571.00	19696.00	
	SUB TOTAL Rs.				<b>2783759.00</b>	<b>347970.00</b>	
I	Dinning Hall Work				2783759.00	347970.00	3131729.00
	Add contingencies 3%				<b>83513.00</b>	<b>10439.00</b>	<b>93952.00</b>
	Grand Total Rs.				<b>2867272.00</b>	<b>358409.00</b>	<b>3225681.00</b>
	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.				<b>2895945.00</b>	<b>361993.00</b>	<b>3257938.00</b>
	Add EPF @3.34%				<b>96725.00</b>	<b>12091.00</b>	<b>108816.00</b>
	Add ESI @1.19%				<b>34462.00</b>	<b>4308.00</b>	<b>38770.00</b>
	Grand Total Rs.				<b>3027132.00</b>	<b>378392.00</b>	<b>3405524.00</b>

(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	
1)	Kitchen Equipments & SS Furniture for hall 7	1.00	L.S.		1193452.00		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		532535.00		As per annexure
	Total Civil				2370987.00		
5)	Providing IEI For laboratories @ 12.5% of A					296373.38	2.3
				Total Rs.	<b>2370987.00</b>	<b>296373.00</b>	
	Add Cost Index @ 6% on DPAR-2019				142259.00	17782.00	
	SUB TOTAL Rs.				<b>2513246.00</b>	<b>314155.00</b>	
I	Dinning Hall Work				2513246.00	314155.00	2827401.00
	Add contingencies 3%				<b>75397.00</b>	<b>9425.00</b>	<b>84822.00</b>
	Grand Total Rs.				<b>2588643.00</b>	<b>323580.00</b>	<b>2912223.00</b>
	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.				<b>2614529.00</b>	<b>326816.00</b>	<b>2941345.00</b>
	Add EPF @3.34%				<b>87325.00</b>	<b>10916.00</b>	<b>98241.00</b>
	Add ESI @1.19%				<b>31113.00</b>	<b>3889.00</b>	<b>35002.00</b>
	Grand Total Rs.				<b>2732967.00</b>	<b>341621.00</b>	<b>3074588.00</b>

*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	
1)	Kitchen Equipments & SS Furniture for hall 8	1.00	L.S.		1193452.00		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		621322.00		As per annexure
	Total Civil				2459774.00		
5)	Providing IEI For laboratories @ 12.5% of A					307471.75	2.3
				Total Rs.	<b>2459774.00</b>	<b>307472.00</b>	
	Add Cost Index @ 6% on DPAR-2019				147586.00	18448.00	
	SUB TOTAL Rs.				<b>2607360.00</b>	<b>325920.00</b>	
I	Dinning Hall Work				2607360.00	325920.00	2933280.00
	Add contingencies 3%				<b>78221.00</b>	<b>9778.00</b>	<b>87999.00</b>
	<b>Grand Total Rs.</b>				<b>2685581.00</b>	<b>335698.00</b>	<b>3021279.00</b>
	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
	<b>Grand Total Rs.</b>				<b>2712437.00</b>	<b>339055.00</b>	<b>3051492.00</b>
	Add EPF @3.34%				<b>90595.00</b>	<b>11324.00</b>	<b>101919.00</b>
	Add ESI @1.19%				<b>32278.00</b>	<b>4035.00</b>	<b>36313.00</b>
	<b>Grand Total Rs.</b>				<b>2835310.00</b>	<b>354414.00</b>	<b>3189724.00</b>

(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 9**

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 9	1.00	L.S.		1978860.00		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		1440489.00		As per annexure
	Total Civil				4064349.00		
5)	Providing IEI For laboratories @ 12.5% of A					508043.63	2.3
				Total Rs.	<b>4064349.00</b>	<b>508044.00</b>	
	Add Cost Index @ 6% on DPAR-2019				243861.00	30483.00	
				SUB TOTAL Rs.	<b>4308210.00</b>	<b>538527.00</b>	
I	Dinning Hall Work				4308210.00	538527.00	4846737.00
	Add contingencies 3%				<b>129246.00</b>	<b>16156.00</b>	<b>145402.00</b>
	Grand Total Rs.				<b>4437456.00</b>	<b>554683.00</b>	<b>4992139.00</b>
	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.				<b>4481831.00</b>	<b>560230.00</b>	<b>5042061.00</b>
	Add EPF @3.34%				<b>149693.00</b>	<b>18712.00</b>	<b>168405.00</b>
	Add ESI @1.19%				<b>53334.00</b>	<b>6667.00</b>	<b>60001.00</b>
	Grand Total Rs.				<b>4684858.00</b>	<b>585609.00</b>	<b>5270467.00</b>

*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 10**

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 10	1.00	L.S.		1913370.00		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		955717.00		As per annexure
	Total Civil				3514087.00		
5)	Providing IEI For laboratories @ 12.5% of A					439260.88	2.3
				Total Rs.	<b>3514087.00</b>	<b>439261.00</b>	
	Add Cost Index @ 6% on DPAR-2019				210845.00	26356.00	
				SUB TOTAL Rs.	<b>3724932.00</b>	<b>465617.00</b>	
I	Dinning Hall Work				3724932.00	465617.00	4190549.00
	Add contingencies 3%				<b>111748.00</b>	<b>13969.00</b>	<b>125717.00</b>
	Grand Total Rs.				<b>3836680.00</b>	<b>479586.00</b>	<b>4316266.00</b>
	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.				<b>3875047.00</b>	<b>484382.00</b>	<b>4359429.00</b>
	Add EPF @3.34%				<b>129427.00</b>	<b>16178.00</b>	<b>145605.00</b>
	Add ESI @1.19%				<b>46113.00</b>	<b>5764.00</b>	<b>51877.00</b>
	Grand Total Rs.				<b>4050587.00</b>	<b>506324.00</b>	<b>4556911.00</b>

  
(Prakhar Prashant)  
Assistant Executive Engineer


  
(Manish Kumar Kanodia)  
Executive Engineer

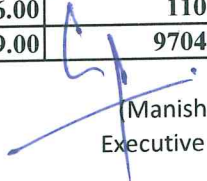
  
(Debasish Mishra)  
Assistant Engineer (E)


  
( 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 & 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		2594796.00		As per annexure
	Total Civil				6735546.00		
5)	Providing IEI For laboratories @ 12.5% of A					841943.25	2.3
				Total Rs.	<b>6735546.00</b>	<b>841943.00</b>	
	Add Cost Index @ 6% on DPAR-2019				404133.00	50517.00	
	SUB TOTAL Rs.				<b>7139679.00</b>	<b>892460.00</b>	
I	Dinning Hall Work				7139679.00	892460.00	8032139.00
	Add contingencies 3%				<b>214190.00</b>	<b>26774.00</b>	<b>240964.00</b>
	<b>Grand Total Rs.</b>				<b>7353869.00</b>	<b>919234.00</b>	<b>8273103.00</b>
	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
	<b>Grand Total Rs.</b>				<b>7427408.00</b>	<b>928426.00</b>	<b>8355834.00</b>
	Add EPF @3.34%				<b>248075.00</b>	<b>31009.00</b>	<b>279084.00</b>
	Add ESI @1.19%				<b>88386.00</b>	<b>11048.00</b>	<b>99434.00</b>
	<b>Grand Total Rs.</b>				<b>7763869.00</b>	<b>970483.00</b>	<b>8734352.00</b>

  
(Prakhar Prashant)  
Assistant Executive Engineer

  
(Manish Kumar Kanodia)  
Executive Engineer


  
(Debasish Mishra)  
Assistant Engineer (E)

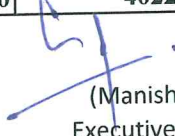
  
( R. N. Kundu)  
Executive Engineer (E)





**Name of work:- Mechanisation of Kitchen and Mordernisation of dinning halls (required cases) SH: Hall 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.	<b>2792053.00</b>	<b>349007.00</b>	
	Add Cost Index @ 6% on DPAR-2019				167523.00	20940.00	
	SUB TOTAL Rs.				<b>2959576.00</b>	<b>369947.00</b>	
I	Dinning Hall Work				2959576.00	369947.00	3329523.00
	Add contingencies 3%				<b>88787.00</b>	<b>11098.00</b>	<b>99885.00</b>
	<b>Grand Total Rs.</b>				<b>3048363.00</b>	<b>381045.00</b>	<b>3429408.00</b>
	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
	<b>Grand Total Rs.</b>				<b>3078847.00</b>	<b>384855.00</b>	<b>3463702.00</b>
	Add EPF @3.34%				<b>102833.00</b>	<b>12854.00</b>	<b>115687.00</b>
	Add ESI @1.19%				<b>36638.00</b>	<b>4580.00</b>	<b>41218.00</b>
	<b>Grand Total Rs.</b>				<b>3218318.00</b>	<b>402289.00</b>	<b>3620607.00</b>

  
(Prakhar Prashant)  
Assistant Executive Engineer

  
(Manish Kumar Kanodia)  
Executive Engineer


  
(Debasish Mishra)  
Assistant Engineer (E)

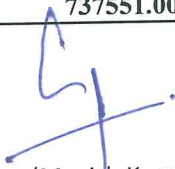
  
( R. N. Kundu)  
Executive Engineer (E)




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

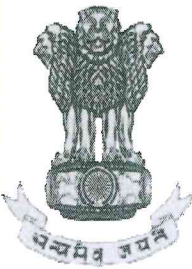

Sl. No.	Description	Qty.	Unit	Rate	Amount		Remarks
					Civil	Electrical	
1)	Kitchen Equipments & SS Furniture for hall 13	1.00	L.S.		2742320.00		Market Rate
2)	Internal water supply and plumbing works & Rennovation	1.00	Each	450000.00	450000.00		Market Rate
3)	Gas bank (2.5mx4m)	10	sqm	19500	195000.00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

  
(Prakhar Prashant)  
Assistant Executive Engineer

  
(Manish Kumar Kanodia)  
Executive Engineer

  
(Debasish Mishra)  
Assistant Engineer (E)

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

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

Date: - 8/08/2020

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. 8,04,89,368/-** 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.

8,04,89,388/-

**ESTIMATED COST:** ~~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 laying 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/-~~ <sup>8,04,89,368/-</sup> 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.

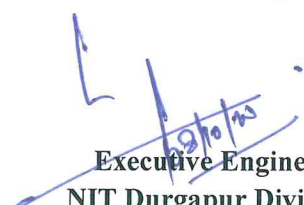
**T&P:** To be arranged by the Contractor.


**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
	<b>Grand Total Rs</b>	<b>44043479.00</b>	<b>36445889.00</b>	<b>80489368.00</b>

(Rupees Eight Crore Four Lac Ninty Thousand) only

*sd*  
(Prakhar Prashant)  
Assistant Executive Engineer

*sd*  
(Debasish Mishra)  
Assistant Engineer(E)

*C. P. Sharma*  
(C.P. Sharma)  
Superintending Engineer

*sd*  
(Manish Kumar Kanodia)  
Executive Engineer

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

80490000.00

80489368.00



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

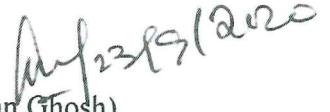
- Vertical Extension of Old Academic Building (Originally planned as IT Building) at NIT Durgapur (WB). Estimated Cost; Rs.4,63,59,000.00
- Extension of Sewer line including toilet blocks at NIT Campus, Durgapur (WB)  
Estimated Cost: Rs.2, 74, 21,000.00

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.

Enclo:- 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 .



## **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.

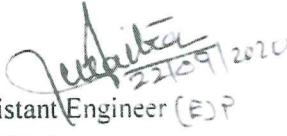
**T&P:** To be arranged by the Contractor.


**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) P  
CPWD, Durgapur

  
Executive Engineer  
CPWD, Durgapur


### ABSTRACT OF COST

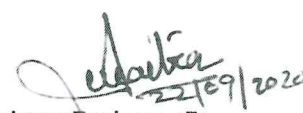
Name of work:- Vertical Extension of Old Academic Building (Originally planned as IT Building)  
at NIT Durgapur (WB)


S.H. No.	Description of Item	Amount of Civil Work	Amount of Electrical Work	Total Amount
I	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	<b>R.C.C. FRAMED STRUCTURE ( up to six storeys )</b>				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	<b>FIRE FIGHTING</b>						
2.1	With Wet Riser Shaft (Plinth area 564.8+502.5*4)	2475.00	sqm	800.00		1980000.00	1.5.1
3	<b>FIRE ALARM SYSTEM</b>						
3.1	Automatic Fire Alarm System	2475.00	sqm	600.00		1485000.00	1.6.2
4	<b>SERVICES</b>						
4.1	Internal water supply and sanitary installations	on (A)		4.00%	1025100.00		2.1
4.2	External Service connections						2.2
4.3	Electrical External Service connections	on (A)		3.75%		961031.00	2.2.1
4.5	Civil External Service connections	on (A)		1.25%	320344.00		2.2.2
4.6	Internal electric installations	on (A)		12.50%		3203438.00	2.3
5	<b>EXTRA FOR</b>						
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
5.3	Extra for LAN conduiting & cabling		L.S			502500.00	Market Rate
5.4	LIFT (For 8 Passenger)					1600000	3.1.1
5.5	SITC of Split AC						
5.6	1.5 TR 5 Star.	20 Nos.	Each	60000		1200000	Market Rate
5.7	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

	<p style="text-align: center;"><b>Government of India</b>  <b>Central Public Works Department</b>  <b>O/o Superintending Engineer Durgapur</b>  <b>Qtr. No. A/5, NIT Campus, Durgapur-713209</b>  <b>Ph: 0343-2542361</b>  <b>e-mail-sedurgapurcpwd@gmail.com</b></p>	
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23/(Misc)/SE/Durgapur/CPWD/2020-21/208

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.

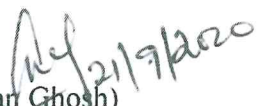
- a) Finishing works including Internal Electrical Installation and Fans on top two floors at 500 seated Girls Hostel Building, NIT, Durgapur.

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 5<sup>th</sup> & 6<sup>th</sup> 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 5<sup>th</sup> & 6<sup>th</sup> 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: -**

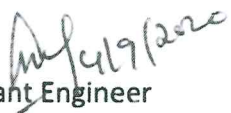
Shall be met from Contingencies.


**METHOD: -**

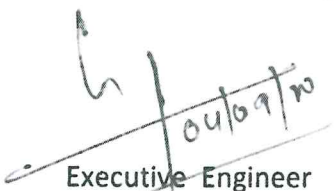
By contract after call of e-tender.

**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

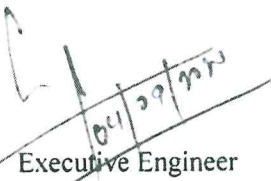
**ABSTRACT OF COST**


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 &amp; 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

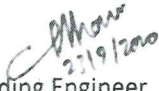
(Rupees Two Crore Seventy Four Lakh Twenty one Thousand) only

  
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



राष्ट्रीयप्रौद्योगिकीसंस्थान दुर्गापुर  
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR  
MAHATMA GANDHI AVENUE, DURGAPUR-713209  
(West Bengal), INDIA, [www.nitdgp.ac.in](http://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

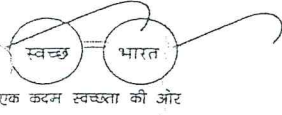
Dean (P & D)

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

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

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

13<sup>th</sup> September, 2018

Sir \ Madam,

As you may be aware, the Ministry of Human Resource Development vide its Order dated 20<sup>th</sup> 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.

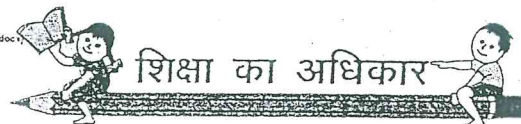
With regards,

Yours sincerely,

  
[MADAN MOHAN]

Encl.: as above.

The Directors of NITs and  
Director, IEST, Shibpur





## 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

Received (Registrar office)  
14-09-2018