

Indian Institute of Technology (Indian School of Mines) Dhanbad

Office of Campus Maintenance Unit

Notice Inviting eTender



eTender Notice

IITD/eTender/ CMU-17012/12/2021/01-CMU

22 September 2021

Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus

Indian Institute of Technology (Indian School of Mines) Dhanbad
Police Line, Sardar Patel Nagar, Hirapur, Dhanbad 826 004 (Jharkhand)

Phone: (0326) 2235621/2235622

Website: www.iitism.ac.in

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SECTION 1

NOTICE INVITING eTENDER

1.1 Notice Inviting eTender

Tenders are invited on behalf of the Board of Governors (BoG), Indian Institute of Technology (Indian School of Mines) Dhanbad from the interested vendors towards the work of **Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.**

All interested Contractors/Vendors are requested to send their bids for the said work above as per detailed technical specifications given and FINANCIAL BID as per BOQ. Hard copies in spiral binding of all the documents submitted in the online TECHNICAL BID is to be submitted through Courier/Speed Post at the address: *The Superintending Engineer, Campus Maintenance Unit, Indian Institute of Technology (Indian School of Mines) Dhanbad, Police Line, Sardar Patel Nagar, Hirapur, Dhanbad 826 004 (Jharkhand).* It should reach before the date of opening of the TECHNICAL BIDS towards the work of **“Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.”**

The envelope should be clearly marked **“TECHNICAL BID: Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.”** and this shall not contain any price information. The important information related to tender is as following:

Date of Issue/Publishing	22 September 2021 (20:00 Hours)
Document Download/Sale Start Date	22 September 2021 (20:01 Hours)
Document Download/Sale End Date	30 September 2021 (15:00 Hours)
Last Date and Time for uploading of Bids	30 September 2021 (15:00 Hours)
Last Date and Time for receipt of Queries	28 September 2021 (15:00 Hours)
Last Date and Time for submitting of hardcopy of Bids	01 October 2021 (15:00 Hours)
Date and Time of opening of Technical Bids	01 October 2021 (16:00 Hours)
Pre-bid Meeting Date and Time	28 September 2021 (15:00 Hours)
Total Estimated Cost	Rs. 5,25,788.00 (Rupees Five Lacs Twenty Five Thousands Seven Hundred and Eighty Eight only)
Date of Opening of Financial Bids	Will be informed later
Tender Fee	Nil
Bid Security Declaration Form	As per <i>Annexure V</i> attached
EMD	Nil (Declaration required as per <i>Annexure V</i>)
Performance Guarantee (PG)	3 % of Contract Value
Security deposit	2.5 % of Bill Value
Time/Period of Completion	30 (Thirty) Days
Bid Validity	75 days (from the last day of receipt of Technical Bid)
eMail Address	twhelpdesk701@gmail.com

1.2 Detailed Notice Inviting eTender

- (1) Tenders are invited on behalf of Board of Governors (BoG), Indian Institute of Technology (Indian School of Mines) Dhanbad.
- (2) The tender shall be in prescribed form and it shall be valid for a minimum period of 75 days from the last day of receipt of TECHNICAL BID. If the tenderer modify or withdraw his tender within the said period of 75 from the last day of receipt of technical bid, the tenderer shall be suspended for one year and shall not be eligible to bid for IIT (ISM) Dhanbad tenders from the date of issue of Suspension Order.
- (3) The works are required to be completed in 30 (Thirty) Days from the date on which the Engineer-in-charge issue Work Order to commence the work or from the date of Handing Over of the site, whichever is later in accordance with the phasing, if any, indicated in the tender documents.
- (4) Online (eTender) tender are invited from Contractors/Vendors who having experience of successfully completed similar type of works during last 07 (Seven) years ending last day of previous month to the one in which applications invited should be either of:
 - (i) One Work Order/Job of similar nature, value not less than 80% of Estimated Cost.
 - (ii) Two Work Orders/Jobs of similar nature, value not less than 50% of Estimated Cost.
 - (iii) Three Work Orders/Jobs of similar nature, value not less than 40% of Estimated Cost.
- (5) No two or more concerns in which an individual as a proprietor and /or a partner shall tender for the execution of the same works, if they do so, all such tenders shall be liable to be rejected.
- (6) The Director, IIT (ISM) Dhanbad shall be the Accepting Officer hereinafter referred to as such for the purpose of this contract.
- (7) A tenderer shall produce annual turnover on works of the individual/firm/company from Chartered Accountant as per returns filed with Income Tax Department for the past 3 (three) financial years.
- (8) Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks contingencies and other circumstances which may influence or effect their tender. A tender shall be deemed to have full knowledge of the site, whether he inspects it or not and so no extra charges consequent on any misunderstanding or otherwise shall be allowed.
- (9) Submission of a tender by a tenderer implies that he/she has read this notice and other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors bearing on the specification of the work.
- (10) In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is

no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly. However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer and the tenderer shall be suspended for one year and shall not be eligible to bid for IIT (ISM) tenders from date of issue of suspension order as per annexure V.

In the case of Item Rate Tenders, the rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.

In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.

If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE or Engineer-in-charge of major & minor component(s), and the lowest contractors those have quoted equal amount of their tenders.

In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and the tenderer shall be suspended for one year and shall not be eligible to bid for IIT (ISM) tenders from date of issue of suspension order as per annexure V.

In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after suspension of each lowest contractors for one year.

- (11) In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. The tender submitted shall be treated as invalid if :-

- (a) The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
- (b) The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.
- (c) The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender.

In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.

In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and the tenderer shall be suspended for one year and shall not be eligible to bid for IIT (ISM) tenders from date of issue of suspension order as per annexure V.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal , the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Engineer-in-charge of major & minor component(s) , & the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after suspension of each lowest contractors for one year.

- (12) The tender for the works shall not be witnessed by a Contractor or Contractors who himself/themselves has/have tendered or who may and has/have tendered for the same works. Failure to observe this condition shall render the tender of contractor tendering as well of those witnessing the tender to be rejected.
- (13) Tenders shall be received by the *Office of Superintending Engineer, IIT (ISM) Dhanbad* up to 15:00 Hours on 24 September 2021 and shall be opened on 24 September 2021 at 16:00 Hours in the presence of the tenderers, who may be present.
- (14) Failure of the successful tenderer to carry out the tendered work the tenderer shall be suspended for one year and shall not be eligible to bid for IIT (ISM) tenders from date of issue of suspension order.
- (15) A tenderer shall submit the tender which satisfied each and every condition laid down in this notice, failing which the tender will be liable to be rejected.
- (16) The Institute does not bind themselves to accept the lowest or any tender or to give any reason for their decision.
- (17) The Institute reserves the right of accepting the whole or any part of the tender and tenderer shall be bound to perform the same at his quoted rates.

(18) This Notice Inviting *e*Tender shall form part of the documents.

(19) Escalation may be payable as per clause number 45 of General Conditions of Contract.

Superintending Engineer
IIT (ISM) Dhanbad

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SECTION 2

INSTRUCTIONS TO BIDDERS

2.1 Instructions to Bidders

The tenderers intending to participate in this tender are required to get enrolled on the portal www.tenderwizard.com/IITD. *Enrolment on the above mentioned Portal is mandatory.*

The tenderers have to Digitally Sign their bids before submitting the bids online hence the tenderers are advised to obtain Digital Certificates. The bidders may contact **Mr. Satadala Samanta (+918013426317)** for obtaining Class III Digital Signature Certificates and get registration. Tender documents are also available in www.iitism.ac.in but bidders have to participate through www.tenderwizard.com/IITD.

The tenders are required to be submitted in Envelope 'A' physically and must be upload on eTendering portal, www.tenderwizard.com/IITD as per dates indicated at **Key Dates**. The Physical Envelope should contain the following. The hard copy of the tender, uploaded on eTendering portal, must be sent through Courier/Speed Post at the address: *The Superintending Engineer, Campus Maintenance Unit, Indian Institute of Technology (Indian School of Mines) Dhanbad, Police Line, Sardar Patel Nagar, Hirapur, Dhanbad 826 004 (Jharkhand)*. Tender cost and processing fee are non-refundable.

2.2 Proforma for Earnest Money Deposit (EMD) declaration

Online Bid documents submitted by intending bidders shall be opened only of those bidders, who will submit the signed *Proforma for EMD declaration*.

Tenderer who qualifies the TECHNICAL BID will only be considered for opening of FINANCIAL BID, rest of the FINANCIAL BID will be rejected. **Indian Institute of Technology (Indian School of Mines), Dhanbad** reserves the right to reject any or all the tenders received without assigning any reason(s) thereof.

2.3 Tender Documents Search

- (a) Various built in options are available in the www.tenderwizard.com/IITD website to facilitate bidders to search active tenders by several parameters. These parameters include Tender ID and value.
- (b) There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Description of work, Category of tender, State, region, date etc. to search for a tender published on the tender wizard website.
- (c) Once the bidders have selected the tenders they are interested in; they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder.
- (d) The bidder should make a note of the unique Tender ID assigned to each tenderer, in case they want to obtain any clarification / help from the Helpdesk.

2.4 Procedure for preparation and submission of eTender by bidder:

Interested bidders who wish to participate should visit website www.tenderwizard.com/IITD which is the ONLY website for bidding their offer. Further, the procedure is as follows:

- (a) Register your company in the website www.tenderwizard.com/IITD for obtaining a Login ID and Password.
- (b) Using the login ID, Password and Digital Signature, enter the tender portal to download the tender document.
- (c) Pay Tender fee / EMD wherever applicable through Demand Draft and upload the scan copy in website.
- (d) Attach supporting documents first in "Document Library". Then attach them by selecting in particular tender.
- (e) Submit the tender. You will receive a system generated "Acknowledgement Copy" of tender submission.
- (f) Bidder can change quoted rates any time before of closing date and time.
- (g) Bidder must submit the offer before the online closing date and time. The website will automatically stop accepting the offer after online closing date and time.
- (h) Important contact information towards eTender:
 - :: Phone: **Helpline Number:** (011) 49424365, **Mobile Number:** +918013426317
 - :: Person: *Mr. Satadala Samanta*
 - :: eMail: twhelpdesk701@gmail.com

2.5 The following tender documents must be uploaded online

- (a) Technical Bid document, Tender Notice number, Name of the work, Date and Time of the opening.
- (b) Photo copy of PAN card with latest Income Tax Return filed.
- (c) Photocopy of GST registration with latest monthly Return filed.
- (d) Experience of having successfully completed similar type of works during last 07 (Seven) years ending last day of previous month to the one in which applications invited should be either of:
 - (i) One Work Order/Job of similar nature, value not less than **80% of Estimated Cost.**
 - (ii) Two Work Orders/Jobs of similar nature, value not less than **50% of Estimated Cost.**
 - (iii) Three Work Orders/Jobs of similar nature, value not less than **40% of Estimated Cost.**
- (e) Copy of current valid registration.
- (f) Bidder need to submit a form for Performance Guarantee as per Annexure X.
- (g) Bidder need to submit a Declaration in lieu of EMD as per Annexure V.
- (h) Copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses,

registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund

The details of online tender submission and submission of FINANCIAL BID have been mentioned as “INSTRUCTION” in the eTendering link: www.tenderwizard.com/IITD.

TECHNICAL BID shall be evaluated first and the FINANCIAL BID for those who do not qualify shall not be opened for consideration.

The work only shall be considered as similar work. Full details, specifications, terms and conditions of work shall be available in the Tender Document for above NIT which can be downloaded from web site of Institute from 15 September 2021 onwards. Tenders received without EMD Declaration, GST and PF Registration (which are applicable) will be summarily rejected. Sealed Tenders will be received in Tender Box kept in the Office of *Campus Maintenance Unit, IIT (ISM) Dhanbad* on or before 24 September 2021, 15:00 Hours and these will be opened on stipulated date and time in the *Office of Superintending Engineer* in presence of tenderers who may like to be present. The successful tenderers shall have to comply with provision of Contract Labour (Regulation & Abolition) act 1970 and rule appended there under if applicable to him. IIT (ISM) Dhanbad reserves the right to accept or reject or cancel any or all Tender(s) either in full or part thereof or to split up, if necessary, without assigning any reasons whatsoever. NIT is also displayed in website of the Institute www.iitism.ac.in.

Superintending Engineer
IIT (ISM) Dhanbad

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SECTION 3

GENERAL CONDITIONS OF CONTRACT

(1) Interpretation

- (a) In construing these conditions, the Specifications, the Schedule of Quantities, Tender, Special Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.
- (b) This contract shall comprise of the Articles of Agreement, General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Additional Conditions Contract (ACC), the Schedule of Quantities, Specifications, Letter of Acceptance (LoA) of tender and other documents mentioned in the contents sheet attached hereto and including those to which only reference is made herein.

WORK OR WORKS: shall mean all work or works defined in Schedule of Quantities, Specifications and such other work or works as the Contractor may be entrusted with for carrying out under this contract.

EMPLOYER: shall mean The Director, Indian Institute of Technology (Indian School of Mines) Dhanbad, IIT (ISM) Dhanbad, or any officer authorized by Director for the purpose.

CONTRACTOR: shall mean the individual or Firm or Company, whether incorporated or not, undertaking the work and shall include the legal personal representative or such individual or the persons composing such Firm or Company or the successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company.

SITE: shall mean the site of the contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer-In-Charge for the Contractor's use.

COMPENSATION: shall mean all sums payable by way of compensation under any of the conditions shall be considered as reasonable compensation without reference to the actual loss or damage sustained and whether or not any damage sustained, and whether or not any damage shall have been sustained. Words imputing persons include firms and corporations, words imputing the singular only also include the plural and vice versa where the context so required.

INSTITUTE: shall mean Indian Institute of Technology (Indian School of Mines) Dhanbad, IIT (ISM) Dhanbad, having its registered office at Police Line, Sardar Patel Nagar, Hirapur, Dhanbad 826 004 (Jharkhand) in the state of Jharkhand and includes a duly authorized representative of the Institute or any other person empowered in this behalf by the Institute to discharge all or any of its functions.

CONTRACT: shall mean the Notice Inviting eTender and acceptance thereof and the formal Agreement, if any, executed between IIT (ISM) Dhanbad and the Contractor together with the documents referred to therein including these Condition with Appendices and any Special Conditions, including subsequent Amendments thereof, the Specifications, Drawings, Schedule of Quantities with Rates and Amounts and Schedule of Rates. All these documents taken shall be deemed to form one contract and shall be complementary to one another.

CONTRACT SUM shall mean:

- (1) In the case of *Lump Sum Contracts* the sum for which the tender is accepted.
- (2) In the case of *Percentage Rate Contracts* the estimated value of the works as mentioned in the tender adjusted by the Contractor's percentage.
- (3) In the case of *Item Rate Contracts* the cost of the works arrived at after multiplying of the quantities shown in Schedule of Quantities by the Item Rates quoted by the tenderer or as finally accepted for the various items.

DAY: shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.

ENGINEER-IN-CHARGE: shall mean the Engineer-In-Charge officer appointed by the undertaking or his duly authorized representative who shall direct, supervise and shall be In-charge of the works for purpose of this contract.

MARKET RATE: shall be the rate as decided by the Engineer-In-Charge on the basis of the cost of materials and labour at the site where the work is to be executed, plus the percentage mentioned in schedule to cover all overheads and profit.

SCHEDULES(S): referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers issued by the Institute or the standard schedule or rates prescribed by the Institute and the amendments there to issue from time to time.

SITE: shall mean the lands and or other places on under in or through which the work is to be executed under the contract including any other lands or places which may be notified/indicated by the or used for the purposes of the Contract.

TEMPORARY WORKS: shall mean all temporary works of every kind required in or about the execution, completion and maintenance of the works.

URGENT WORKS: shall mean any urgent measures which in the opinion of the Engineer-In-Charge-in-charge, become necessary during the progress of the works to obviate any risk of accident or failure.

WEEK: shall mean 07 (Seven) days without regard to the number of hours worked any day in that week.

WORKS: shall mean the works to be executed in accordance with the contract or part(s) thereof as the case maybe and shall include all extra or additional, altered or substituted works or temporary and urgent works as required for performance of the contract.

(2) Contract Documents

The Contractor shall be handed over one set of contract document after signing the Contract Agreement with IIT (ISM) Dhanbad. He will have to make more copies of the same and he will be required to submit minimum three (3) copies of the document and one original to IIT (ISM) Dhanbad. He shall keep one copy of the documents at the site in good order and the same shall at all reasonable times be available for inspection and use by the Engineer-In-Charge, his representative or by other Inspecting Officer.

- (a) None of these documents shall be used by the Contractor for any purpose other than that of this contract.
- (b) The Contractor shall take necessary steps to ensure that all persons employed on any work in connection with contract are aware that the Indian Official Secret Act 1925 (XIX of 1923) applied to them and shall continue so to apply even after the execution of such works under the contract.

(3) Works to be Carried Out

The Contractor acknowledges that this bid contained all of the information required, in the invitation to bid, specifically the Contractor's Lump Sum Price or his firm Unit Price or Percentage Price for the work to be performed. The Contractor agrees that prices as awarded include any and all cost components including profits, overhead charges and other costs, including but not limited to labour, materials, tools, equipment, insurance, transportation facilities and plant not specified to be furnished by the Institute or others. The descriptions given in the schedule of quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles, in a work like manner, to the full satisfaction of the Engineer-In-Charge.

(4) Inspection of site

The Contractor shall inspect and examine the site and its surroundings and shall satisfy himself before submitting his tender as to the nature and location of the work, the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials, quantities and nature of work and availability of materials, equipment, labour, water and electric power, roads and uncertainties of whether or other physical conditions on the project, the sub-soil conditions, the character of equipment, plant and facilities needed. The Contractor must also acquaint himself with all necessary information as to risks, contingencies and other circumstances which may influence or affect his tender. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

(5) Drawings and Specifications

The Contractor shall execute whole and every part of the work in the most substantial and workmanlike manner both as regards material and otherwise in every respect in accordance with the specifications. The Contractor shall also conform exactly and faithfully to the design, drawings and instructions given in the respect of the work by the Engineer-

In-Charge. The Contractor shall be furnished free of charge one copy of such specifications and all such designs, drawings and instructions as are not included in the printed publications.

(6) Contractor to provide everything necessary

- (a) The Contractor shall provide at his own cost all materials including Cement & Steel, plants, tools, appliances, implements, ladders, scaffolding, temporary works, etc. requisite or proper for the execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of Engineer-In-Charge, as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The Contractor shall also supply without charge the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his/her so doing, the same may be provided by the Engineer-In-Charge at the expense of the Contractor and the expenses may be deducted from any money due to the Contractor under the contract and/or from his Security Deposit.
- (b) The Contractor shall provide himself with requisite quantity and quality of water for carrying out the works at his own cost. If, however, piped water is supplied by the Employer, the Contractor shall pay for the water at one percent of the total cost of the work done except on Electrical work, Air-conditioning work and Furniture work. The Contractor shall make his own arrangement for water connection and laying of further pipelines from the source of supply of the Employer. It should be clearly understood that the Employer does not guarantee to maintain un-interrupted supply of water and it will be incumbent on the part of the Contractor to make alternative arrangement of water at his own cost in the event of any temporary break-down in the water mains so that the progress of work is not held up for want of water. No claim as damages or refund of water charges will be entertained on account of such break-downs. However, if the Contractor is permitted to make his own arrangement to draw water from a well, hand-pump, or natural river or pond of the Employer, no charges will be made for the water drawn from the same, but the Contractor will make good any damage done to the installations and ensure that the quality of water used in the work is conforming to BIS codes and provide for any treatment at his own cost.
- (c) The Contractor shall be allowed to construct temporary wells in Employer's land for taking water for construction purpose only after he has permission of the Employer in writing. This will be subject to the position that NOC for the purpose has been obtained by the Contractor from statutory authorities. No charges shall be recovered from the Contractor on this account but the Contractor shall be required to provide necessary safety arrangement to avoid any accident or damage to adjacent buildings, roads and service lines. He shall be responsible for any accident or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

- (d) The Employer on no account shall be responsible for the expenses included by the Contractor for hired ground or water obtained from elsewhere.
- (e) Subject to availability the Employer may supply power at only one point from where the Contractor shall make his own arrangement for distribution including provision of electric meters, switches, fuses etc. at his own cost. These shall be in the custody of the Employer. If there is any hindrance caused to other works, the Contractor shall reroute or remove such temporary lines without any extra cost. Such temporary lines shall be removed after the completion of work. The cost of power consumed by the Contractor shall be payable to the employer at rates fixed by the Employer, which would be deducted from the running account bills. However the Employer does not guarantee the supply of power and no compensation for any failure or short supply of power shall be entertained.

(7) Authorities, Notices and Patents

- (a) The Contractor shall conform to any regulations and bye-laws of any corporation and of any electricity supply company and authorities with whose systems, the structure is proposed to be connected, and shall before making any variations from the drawing and specifications that may be necessitated for so conforming by giving written notice to the Engineer-In-Charge specifying the variations proposed to be made, the reasons for making it and apply for instructions thereon. If the compliance with this clause involves any extra work not included in this contract, he shall specify these items of work and the allowance of extra payment required on their account.
- (b) The Contractor shall give all notices required by the said regulations or bye-laws to be given to any Authority and pay to such Authority or to any public office all fees that may be chargeable in respect of the works and lodge the receipts with the bill to the Engineer-In-Charge for reimbursement.

(8) Rates to include all Taxes

- (a) Rates quoted by the Contractor shall include Goods and Services Tax and all other taxes in respect of this contract. The Employer shall not entertain any claim whatsoever in this respect. Tendered rates are inclusive of all taxes and levies payable under the respective statutes. However pursuant to the Constitution (Forty Sixth Amendment) Act, 1982 if any further tax or levy is imposed by Statutes, after the date of receipt of tenders and the Contractor thereupon necessarily and properly pays such taxes/levies the Contractor shall be reimbursed the amount as per the rules on producing proof of payment so made provided such payments, if any, is not in the opinion of the Employer (whose decision shall be final and binding) attributable to delay in executing of work within the control of the Contractor.
- (b) The Contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Employer and further shall furnish such other information and documents as the Employer may require.

- (c) The Contractor shall within a period of thirty days of imposition of any further tax or levy pursuant to the Constitution (Forty Sixth Amendment) Act, 1982 give a written notice thereof to the Employer that the same is given pursuant to this condition together with all necessary information relating thereto.

(9) Sufficiency of Tender

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of the tender for the works and the rates and the prices quoted in the schedule of items, which rates and the prices shall, except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

(10) Discrepancies and Adjustment of Errors

- (a) The several documents forming the contract are to be taken as complementary to and shall be read in conjunction with each other and mutually explanatory of one another. In case of any conflict of meaning between the Special Conditions of Contract and the General Conditions of Contract, the provisions of Special Conditions of Contract shall override the corresponding provisions of General Conditions of Contract. Similarly where the description of any item of work in the Tender Schedule differs from the Specifications, the description given in the Bill of Quantities read with preamble shall have overriding effect.
- (b) If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document.
- (c) Any error in Description, Quantity or Rate in Schedule of Quantities or any omission therefrom shall not vitiate the contract or release the Contractor from the execution of the whole or any part of the works comprised there in according to drawings and specifications or from any of his obligations under the contract.
- (d) If any discrepancy between the rates given by the Contractor in words and figures or in the amount worked out by him in the schedule of quantities and general summary is found, the same shall be adjusted in accordance with the following rules :
- In the event of a discrepancy between words and figures quoted by a tenderer, the description in words shall prevail.
 - In the event of an error occurring in the amount column of schedule of quantities as a result of wrong extension of the unit rate and quantity, the unit rate shall be regarded as firm and the amount shall be amended on the basis of the rate.
 - All errors in totaling in the amount column and carrying forwarded totals shall be corrected.
 - The totals of various sections of schedule of quantities amended shall be carried over to the general summary and the rendered sum amended accordingly. The tendered sum so altered shall, for the purpose of the tender, be substituted for sum originally tendered and considered for acceptance instead of the original sum quoted by the tenderer. Any rounding off of totals in various sections of schedule of quantities or in general summary by the tenderer, shall be ignored.

(11) Materials

- (a) All materials to be provided by the Contractor shall be in conformity with Technical Specifications and relevant Indian Standard Codes. All the Contractor's materials shall be inspected and passed by the Engineer-In-Charge, before their use in the works. Institute official shall be entitled at any time to inspect and examine any materials to be use in or on the works, either on the site or at factory or workshop or other place(s) where such materials are assembled fabricated manufactured or any place(s) where these are laying or from where these shall be obtained and the Contractor shall, if required by the Engineer-In-Charge-In-Charge samples of materials proposed to be used in the works.
- (b) The Contractor shall at his own expense supply to the Engineer-In-Charge-In-Charge samples of materials proposed to be used in the works.
- (c) A list of **Preferred Makes of Material** is enclosed (**Section 12**). The list is indicative only and not exhaustive.

(12) Testing of Materials

The Contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in the specifications and by statutory authority at his own cost. The Employer has the right to appoint the testing authorities. In case, Engineer-In-Charge desires testing of materials from the testing authorities, the Contractor shall arrange for the same. The testing fee of the testing authorities shall be borne by the Department, if the tested materials are found to be conforming to laid down specifications. In case after testing the materials are not found as per specifications, then the testing fees shall be borne by the Contractor. Failing his so doing, the same shall be provided by the Engineer-In-Charge at the expense of the Contractor and the expenses shall be deducted from any money due to the Contractor under the contract and/or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

(13) Contractor's Engineer/Foreman and Workmen

- (a) The Contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Engineer-In-Charge may consider necessary until the expiration of Defects Liability Period. The Contractor shall employ competent Site Engineer/Foreman as detailed in 'Special Conditions' and as approved by the Engineer-In-Charge whose qualification must conform to the requirement specified by the Engineer-In-Charge who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer-In-Charge to such Site Engineer or Foreman or any other authorized agent shall be held to be given to the Contractor. In case, Contractor fails to provide Engineer-In-Charge as given in Special Conditions, the Employer shall have right to appoint the necessary Engineer-In-Charge personnel requisite staff needed for proper Superintendence of work at the cost of Contractor for the period of currency of contract inclusive of defect liability period.
- (b) The Contractor shall on the request of the Engineer-In-Charge immediately dismiss from the works any person employed thereon who may in the opinion of the

Engineer-In-Charge be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.

(14) Access

- (a) The Engineer-In-Charge, and the Employer or its representative shall at all reasonable time have free access to the works and/or workshops, factories or other places the materials are being prepared or constructed for the contract and also to any place where the materials are lying or from which they are being obtained and the Contractor shall give every facility to them for inspection. Except the representatives of statutory authorities and those mentioned above, no other person shall be allowed on the works at any time without the permission of the Engineer-In-Charge.
- (b) If any work is to be done at a place other than the site of works, Contractor shall obtain written permission of the Engineer-In-Charge.

(15) Variation and Price for variation

- (a) The Engineer-In-Charge with the approval of the Employer shall have power to make any alterations/omissions/ additions and/or substitutions from the original specifications, drawings, designs, and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional or substituted work which the Contractor may be directed to do in the manner specified above as part of the work shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main work subject to the variation limits prescribed hereunder. In case deviations of agreement quantities exceed the prescribed limits, then the rates for quantities exceeding the prescribed limits shall be determined on market rate basis. The rates for such altered, additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.
- (b) If the rates for the altered, additional, or substituted work are specified in the contract for the work, the Contractor is bound to carry out the altered, additional, or substituted work at the same rates as are specified in the contract for the work.
- (c) If the rates for the altered, additional, or substituted work are not specifically provided in the contract for the work, the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- (d) If the rates for the altered, additional, or substituted work cannot be determined in the manner specified in Sub-Clause (b) and (c) above, then the Contractor shall, within 10 working days from the date of receipt of the order to carry out the work through notice in writing, inform the Engineer-In-Charge of the rate which it is his intention to charge for such class of work, supported by analysis of the rate claimed which shall be based on actual cost of work plus 10% as Contractor's profit and overheads accepted in case of departmental materials for which Contractor's profit and overheads shall be 2.5%. When such notice has been given, the Engineer-In-Charge with the consent of the Employer may agree to such a rate but if the Engineer-In-Charge does not agree to the Contractor rate the Engineer-In-Charge may cancel his order to carry out such class of work and arrange to

carry out in such a manner as he may consider advisable.

- (e) Under no circumstances, the Contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.
- (f) Variation limits prescribed is as under:

(i)	Building work	30%
(ii)	Maintenance/Emergency works	50%
(iii)	Foundation works	100%
(iv)	Services Works	30%

(16) Faulty materials, Workmanship and Defects after completion

- (a) The Engineer-In-Charge shall have powers to require the removal from the site of all materials and work which in his opinion are not in accordance with specifications and in case of default, the Engineer-In-Charge shall have liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the Engineer-In-Charge may cause the same to be supplied and all costs which may attend such removal and/or substitution are to be borne by the Contractor.
- (b) If it shall appear to the Engineer-In-Charge or to the Employer based on audit/technical examination, that any work has been executed with unsound, imperfect, or unskillful workmanship or with materials of any inferior description or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, any defects, shrinkage or other faults which may appear within the defects liability period of twelve months from the date of completion arising in the opinion of the Engineer-In-Charge, the Contractor shall on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-In-Charge specifying the work, materials, articles defects or other faults complained of notwithstanding that the same may have been passed, certified and paid for, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own cost. In case of any such failure, the Engineer-In-Charge may rectify or remove or re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and cost in all respects of the Contractor.
- (c) In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable. However, this will not cover those works which are not technically acceptable.
- (d) Provided always that nothing in this clause shall relieve the Contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

(17) Works to be open for inspection

- (a) All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-In-Charge and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-In-Charge to visit the works shall have been given to the Contractor, either himself be present to receive order and instruction or have a responsible agent duly accredited in writing present for that purpose.
- (b) The Contractor shall give not less than seven days' notice in writing to the Engineer-In-Charge before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer-In-Charge and the Engineer-In-Charge shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or the Engineer-In-Charge's consent obtained, the same shall be uncovered at the Contractor's expense or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

(18) Assignment or Sub-letting

- (a) The contract shall not be assigned or sublet without the written approval of the Employer. And if the Contractor shall assign or sub-let his contract or attempt to do so or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so or if any bribe, gratuity or gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the Contractor or any of his/her servants or agents to any person in the employment of the Employer in any way relating to his office or employment, or if any such employee or person shall become in any way directly or indirectly interested in the contract, the Employer shall have the power to adopt any of the courses specified under clause 23 as may be best suited to the interest of the Employer and in the event of any of the courses being adopted the consequences specified in the said clause shall ensue.
- (b) Where the Contractor is a partnership firm, the approval in writing of the Employer shall be obtained before any changes in the constitution of the firm. Where the Contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement hereunder the partnership firm would have the right to carry out the work hereby undertaken by the Contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned or sublet in contravention of clause 18(a) and the same action may be taken and the same consequences shall ensue as provided in the said clause 18(a).

(19) Indemnifying against damages to persons, property and statutes

The Contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

- (a) The Contractor shall be responsible for all injury to persons, animals or things, and for all damage, whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include inter alia any damage due to causes as aforesaid to work, building (whether immediately adjacent or otherwise) and to roads, streets, footpaths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The Contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent upon such claim including legal costs.
- (b) The Contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as aforesaid to the property of third parties.
- (c) The Contractor also indemnifies the Employer against all claim which may be made upon the Employer for acts during the currency of this contract by an employee or representative of an employee of the Contractor or any sub-Contractors, employed by him, for any injury to or loss of life, of such employees, or for compensation payable under any law for the time being in force to any workmen or to the representative, of any deceased or incapacitated workmen.
- (d) The Contractor also indemnifies the Employer against all claims which may be made upon the Employer for acts during the currency of this contract by the Central/State Government or local Municipal authorities for the noncompliance of any laws, regulations, rules pertaining to wages act, safety act in force and any amendments thereof in respect of all labour and apprentices directly or indirectly employed in the work under this contract.
- (e) The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensation costs, charges and/or expenses arising or accruing from or in respect of any such claim and/or damages as aforesaid from any sum or sums due or to become due to the Contractor or security deposit.
- (f) The Contractor shall indemnify the Employer against any action, claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Employer in respect of any such matters as aforesaid, the Contractor shall be immediately notified thereof and the Contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom. Provided that the Contractor shall not be liable to indemnify the Employer if the infringement of the patent or design or any alleged patent or design

right is the direct result of an order passed by the said Employer or his authorized representative.

(20) Lien in respect of claim in other contracts

- (a) Any sum of money due and payable to the Contractor including the security deposit under the contract may be, withheld or retained by way of lien by the Employer or Government or any other contracting person or persons against any claim of the Employer or Government or such other persons in respect of payment of a sum of money arising out of or under any other contract made by the Contractor with the Employer or Government or with such other persons.
- (b) It is agreed term of the contract that the sum of money so withheld or retained under this clause by the Employer will be kept withheld or retained as such by the Employer or till his claim arising out of in the same contract or any other contract is either mutually settled or determined by the Arbitrator if the contract is governed by arbitration clause or by the competent court as the case may be, and that the Contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.

(21) Withholding and lien in respect of Sums claimed

- (a) Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the Contractor, the Employer shall be entitled to withhold and also have a lien to retain such sums or sums in whole or in part from the security deposit, if any deposited by the Contractor and for the purpose aforesaid, the Employer shall be entitled to withhold the security deposit, if any furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security deposit being insufficient to cover the claimed amount or amounts or if no security deposit has been taken from the Contractor, the Employer shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which at any time thereafter may become payable to the Contractor under the same or any other contract with the Employer or any contracting person pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred above by the Employer will be kept withheld or retained as such by the Employer till the claim arising out of or under the contract is determined by the Arbitrator (if the contract is governed by the arbitration clause) or by the competent court as the case may be and that the Contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the Contractor. For the purpose of this clause, where the Contractor is a partnership firm or a limited company the Employer shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum payable to any Partner/limited company as the case may be, whether in his individual capacity or otherwise.

- (b) The Employer shall have the right to cause an audit and technical examination of the works and the final bills of the Contractor including all supporting vouchers, abstract etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been over paid in respect of any work done by the Contractor under the contract or any work claimed by him to have refund the amount of over-payment and it shall be lawful for the Employer to recover the same from him in the manner prescribed in sub-clause(a) of this clause or in any other manner legally permissible; and if it is found that the Contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under- payment shall be duly paid by the Employer to the Contractor.

Provided that the Employer shall not be entitled to recover any sum overpaid, nor the Contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Employer on the one hand and the Contractor on the other hand, under any term of contract permitting payment for work after assessment by the Employer.

(22) In-case of death of Contractor

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, the Employer shall have the option of terminating the contract without compensation to the Contractor.

(23) Sub-Contractors

The Employer reserves the right to use the premises and any portion of the site for the execution of any work not included in the contract. The Contractor is to afford all reasonable facilities to all Sub-Contractors, Specialists, Merchants, Tradesmen and others who may at any time be appointed by the employer for executing any work supplying any goods relating to the constructions; servicing, equipping or furnishing of the work under this contract.

(24) Labour Laws

- (a) The Contractor shall employ both skilled and un-skilled labour in sufficient numbers to maintain the required rate of progress and quality to ensure workmanship of the degree specified in the contract agreement and to the satisfaction of the Engineer-In-Charge-in-charge.
- (b) The Contractor shall pay to the labour wages not less than fair wages as defined in the contract, Labour (Regulation and Abolition) Act, 1970 and Rules made there under.
- (c) The Contractor shall in respect of labour employed by him comply with or cause to be complied with the contract Labour (Regulation and Abolition) Act, 1970 and Rules made there under in regard to all matters provided therein.
- (d) The Contractor shall comply with the provisions of the payment of wages Act, 1936, Minimum Wages Act, 1948, Employers Liability Act, 1938, Workmen's Compensation Act, 1948 or any modifications there of or any other law relating thereto and rules made there under from time to time.

- (e) The Contractor shall be liable to pay His Contribution and the Employee's Contribution to the Employees' State Insurance Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of the Employees State Insurance Act, 1948 as amended from time to time and as applicable in this case. In case the Contractor fails to submit full details of his account of labour employed and the contribution payable, the Engineer-In-Charge shall recover from the running bills of Contractor and amount of contribution as assessed by him. The amount to recover shall be adjusted against the actual contribution payable under Employees State Insurance Scheme.
- (f) The Engineer-In-Charge shall on a report having been made by an inspecting staff defined under the Contract Labour (Regulation and Abolition Act, 1970) and Rules made there under, have the power to deduct the moneys due to Contractor may sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non- fulfillment of the conditions of the contract for the benefit of workers, non-payment of wages or of deductions made from their wages which are not justified by the terms of the contract or non-observance of the said Act.
- (g) The Contractor shall indemnify the Institute against any payment to be made under and for observance of the Contract Labour (Regulation and Abolition Act, 1970) and Rules made there under without Prejudice to his right to claim indemnity from his Sub-Contractors.

(25) Model rules for labour welfare

- (a) The Contractor shall at his own expense comply with or cause to be complied with model rules for Labour Welfare as provided under the rules framed by the appropriate government from time to time for the protection of health and for making sanitary arrangements for workers employed directly or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid the Engineer-In-Charge shall be entitled to do so and recover the cost thereof from the Contractor.
- (b) Failure to comply with model rules for Labour Welfare, Safety Code or the provisions relating to report on accidents and to grant maternity benefits to female workers shall made the Contractor liable to pay to the Institute as liquidated damages an amount not exceeding Rs. 50 for each default or materially incorrect statement. The decision of the Engineer-In-Charge in such matters based on reports from the inspecting officers, shall be final and binding and deductions for recovery of such liquidated damages may be made from any amount payable to the Contractor.
- (c) The Contractor shall not be permitted to enter on (other than for inspection purpose) or take possession of the site until instructed to do so by the Engineer-In-Charge-in-charge in writing. The portion of the site to be occupied by the Contractor shall be indicated by the Engineer-In-Charge at site and the Contractor shall on no account be allowed to extent him operations beyond these areas.
- (d) In respect of any land allotted to the Contractor for purpose of or in connection with the contract, the Contractor shall be a license subject to the following and such other terms and condition as may be imposed by the licenser.

- (e) The Contractor shall provide, if necessary or if required on the site, all temporary access there to and shall later, adapt and maintain the same as required from time to time and shall take up and clear them away as and when no longer required and as when ordered by the Engineer-In-Charge and make good all damage done to the site.

(26) Side Drainage

All water which may accumulate on the site during the progress of the works or in trenches and excavations shall be removed from the site to the satisfaction of the Engineer-In-Charge and at the Contractors' expense. The Contractor shall not at any time do, cause or permit any nuisance on the site or do anything which shall cause unnecessary disturbance or inconvenience to owners, tenants or occupiers of other properties near the site and to the public generally.

(27) Materials obtained from excavation

Materials of any kind obtained from excavation on the site shall remain the property of the Institute and shall be disposed of as the Engineer-In-Charge may direct.

(28) Treasure Trove, Fossils, etc.

All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the site shall be the absolute property of the Institute and the Contractor shall take reasonable precautions to prevent his workmen or any other person from removing or damaging any such article or thing and shall immediately upon discovery thereof and before removal acquaint the Engineer-In-Charge and obtain his directions as to the disposal of the same at the expense of the Institute.

(29) Protection of trees

Tree designated by the Engineer-In-Charge shall be protected from damage during the course of the works and earth level within 1 meter of each such tree shall not be changed. Where necessary, such trees shall be protected by providing temporary fencing.

(30) Watching and Lighting

The Contractor shall provide and maintain at his own expense all lights, guards, fencing and watching when and where necessary or required by the Engineer-In-Charge for the protection of the works or for the safety and convenience of these employees on the works or the public.

(31) Liquidated Damages and Compensation for Delay

- (a) The time for carrying out the work as entered in the tender shall be strictly observed by the Contractor and shall be deemed to be the essence of the contract on the part of the Contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and the Contractor shall pay as compensation an amount equal to ½ (Half) % or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the amount of the whole work as shown in the agreement, for every week that the work remains non-commenced or unfinished after the proper dates subject to a maximum of 10 (Ten) % of the contract value.
- (b) And further to ensure good progress during the execution of the work, the Contractor shall be bound in all cases in which the time allowed for any work exceeds one month

(save for special jobs) to complete 1/8th (One-Eighth) of the whole of the work before 1/4th (One-Fourth) of the whole time allowed under the contract has elapsed; 3/8th (Three-Eighth) of the work before 1/2 (One-Half) of such time has elapsed, and 3/4th (Three-Fourth) of the work before 3/4th (Three-Fourth) of such time has elapsed. However for special jobs if a time schedule has been submitted by the Contractor and the same has been accepted by the Employer, the Contractor shall comply with the said time schedule. In the event of the Contractor failing to comply with this conclusion, he shall be liable to pay as compensation an amount equal to half per cent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the said cost of the work for every week that the due quantity of work remains incomplete. Provided that the entire compensation to be paid under the provisions of this clause shall not exceed ten percent on the cost of the work as shown in the agreement.

(32) Damage to works in consequence of hostilities or war-like operations

- (a) The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the Contractor until the work has been delivered to the Employer and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or war-like operations, the Contractor shall, when ordered in writing by the Employer, remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking, removal of serviceable materials and for the reconstruction of all works ordered by the Employer such payment being in addition to compensation up to the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for the compensation shall be assessed by the Employer. The Contractor shall be paid for the damage/ destruction suffered and for restoring the material at the rates based on the analysis of rates tendered for in accordance with the provision of this agreement. The certificate of the Employer regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on the Contractor.
- (b) Provided always that no compensation shall be payable for any loss in consequence of hostilities or war-like operations:
 - Unless the Contractor had taken all such precautions against Air Raid as are deemed necessary by the A.R.P. Officers or the Employer
 - For any materials etc., not on the site of the work or for any tools and plant, machinery, scaffolding, temporary buildings and other things not intended for the work.
- (c) In the event of the Contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Employer.

(33) Extension of Time

- (a) If the Contractor shall desire an extension of time for the completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground, he shall apply in writing to the Employer within thirty days of the date of hindrance on account of which he desires extension as aforesaid, and the Employer shall, if in his opinion (which shall be final) reasonable grounds shown therefor, authorize such extension of time if any, which may, in his opinion, be necessary or proper.
- (b) In the event, the value of work exceeds the value of the Bill of Quantities owing to variations the Contractor shall be entitled to ask for extension of time in proportion to the increased value of work.
- (c) If in case, performance security is submitted in the form of bank guarantee, then the Contractor should make a request for extension of time only after the firm has got validity of Bank Guarantee extended suitably.

(34) Suspension of work by Contractor

- (a) The Employer may without prejudice to his right against the Contractor in respect of any delay or inferior workmanship or otherwise or to any claims for damages in respect of any breaches of the contract and without prejudice to any rights or remedies under any of the provisions of this contract or otherwise and whether the date for completion has or has not elapsed by notice absolutely determine the contract in any of the following cases:
 - (i) If the Contractor having been given by the Engineer-In-Charge a notice to rectify, reconstruct or replace any defective work or that the work is being performed in any inefficient or otherwise improper or unworkman-like manner shall omit to comply with the requirements of such notice for a period of seven days thereafter or if the Contractor shall delay or suspend the execution of the work so that in the judgment of the employer (which shall be final and binding) he/she will be unable to ensure completion of the work by the date for completion or he/she has already failed to complete the work by that date.
 - (ii) If the Contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court of creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
 - (iii) If the Contractor commits breach of any of the terms and conditions of this contract.
 - (iv) If the Contractor commits any acts mentioned in Clause-13 hereof.
- (b) When the Contractor has made himself liable for action under any of the cases aforesaid, the Employer shall have the following powers:
 - (i) To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the Contractor under the hand of the Employer

shall be conclusive evidence). Upon such determination or rescission the security deposit of the Contractor shall be liable to be forfeited and shall be absolutely at the disposal of the Employer.

- (ii) The Engineer-In-Charge may employ LABOUR paid by the Employer and to supply materials to carry out the work or any part of the work debiting the Contractor with cost the LABOUR and the price of the materials (of the amount of which cost and price certified by the Engineer-In-Charge shall be final and conclusive against the Contractor) and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Engineer-In-Charge as to the value of the work done shall be final and conclusive against the Contractor, provided always that action under the sub-clause shall only be taken after giving notice in writing to the Contractor. Provided also that if the expenses incurred by the Employer are less than the amount payable to the Contractor at his/her agreement rates, the difference should not be paid to the Contractor.
- (iii) After giving notice to the Contractor to measure up the work of the Contractor and to take such part thereof as shall be unexecuted out of his hands and to give it to another Contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original Contractor if the whole work had been executed by him (of the amount of which exceed the certificate in writing of the Engineer-In-Charge shall be final and conclusive) shall be borne and paid by the original Contractor and may be deducted from any money due to him by the Employer under this contract or any other account whatsoever or from his security deposit.
- (iv) In the event of any one or more of the above courses being adopted by the Employer the Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provisions aforesaid, the Contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-In-Charge has certified in writing the performance of such work and the value payable in respect thereof and he/she shall only be entitled to be paid the value so certified.

(35) Secured Advance

The Contractor on signing an indenture in the form specified by the Employer during the progress of the execution of the work may be paid if agreed by the Employer up to 75 percent of the estimated value which shall take into account the market value and Contractors tendered rates for the finished item of any material which in the opinion of the Engineer-In-Charge is likely to be incorporated in the work within next three months, are non-perishable and are in accordance with the contract and which have been brought to the site in connection therewith and are adequately stored and protected against damage by weather or other causes

but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this clause are incorporated in the work the amount of such advance shall be deducted from the next payment made under any of the clause or clauses of this contract.

(36) Mobilization Advance

In specialized and capital intensive works costing not less than Rs. 2 Crores, Mobilization Advance limited to a maximum of 10 (Ten) % of the Tendered Value or Rs. 1 Crore whichever is less is payable in two equal instalment at 10 (Ten) % Simple Interest. If Mobilization Advance should be given, it should be expressly stated in the NIT/Bid documents, indicating the amount, Rate of Interest and submission of Bank Guarantee of equivalent amount. The advance payment may be released in stages depending upon the progress of the work and mobilization of required equipment etc. There should be a provision in the contract for adjustment of advance progressively even as the bills are cleared for payment.

(37) Certificates and Payments

- (a) No payments shall be made for a work estimated to cost Rupees ten thousand or less till the whole of the work shall have been completed and certificate of completion given. But in the case of a work estimated to cost more than Rupees ten thousand, the Contractor shall, on submitting the bill be entitled to receive a monthly payment proportionate to the part of the work executed, and to the satisfaction of the Engineer-In-Charge, whose certificate of the sum so payable shall be final and conclusive against the Contractor, provided the amount of work done is as per the value of intermediate certificate or for a lesser amount at the discretion of the Engineer-In-Charge as mentioned in the NIT. All such intermediate payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound, imperfect or unskilled work to be removed and taken away and reconstructed, or re-erected or be considered as an admission of the due performance of the contract, of any part thereof in any respect or the accruing of any claim nor shall it conclude, determine, or affect in any way the powers of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or in any other way vary or affect the contract. The final bill shall be submitted by the Contractor within two months of the date fixed for the completion of work or of the date of the certificate of completion furnished by the Employer and payment shall be made within three months if the value of the completed works is up to Rs. 2 (Two) lacs and in 06 (Six) months if the same exceeds Rs. 2 (Two) lacs of the submission of such bill. If there shall be any dispute about any item or items of the work then the undisputed item or items only shall be paid within the said period of 03 (Three) months or 06 (Six) months as the case may be.
- (b) Whenever there is likely to be delay in recording detailed measurements for making a running payment, advance payment without detailed measurements for work done worked out at 75 percent of the tendered rates for assessed quantities may be made in running account bills by the Employer on the basis of a certificate from the Engineer-In-Charge. The advance payments so allowed shall be adjusted in the subsequent running bills by taking detailed measurements thereof. Final payments shall be made only on the basis of detailed measurements.

- (c) A bill shall be submitted by the Contractor each month on or before the date fixed by the Engineer-In-Charge on printed forms obtainable from the Engineer-In-Charge's office. The Engineer-In-Charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted as far as possible, before the expiry of ten days from the presentation of the bill. If the Contractor does not submit the bill within the time fixed as aforesaid the Engineer-In-Charge may cause action within 07 (Seven) days of the date fixed as aforesaid, an authorized representative to measure up the said work in the presence of the Contractor whose signature to the measurement will be sufficient warrant and the Engineer-In-Charge may prepare the bill from such measurements.
- (d) Before taking any measurements of any work, the Engineer-In-Charge or his authorized representative deputed by him shall give reasonable notice to the Contractor. If the Contractor fails to attend after such notice or fails to sign or to record the difference within a week from the date of measurement in the manner required by the Engineer-In-Charge then in any such event the measurements taken by the Engineer-In-Charge or by authorized representative deputed by him as the case may be, shall be final and binding on the Contractor and the Contractor shall have no right to dispute the same.
- (e) The charges in the bills shall always be entered at the rates specified in the agreement or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the agreement at the rate determined as per Clause 10. However in case of partially executed items of work, the Employer at his discretion allows proportionate rates for such items of work as determined by the Engineer-In-Charge whose certificate of the sum so payable shall be final and conclusive against the Contractor.

(38) Security Deposit

- (a) A sum @ 2.5% of the Gross Amount of the bill shall be deducted from each running bill of the Contractor till the sum along with the sum already deposited as Earnest Money Deposit, will amount to Security Deposit of the 2.5 % tender value of the work. In addition, the Contractor shall be required to deposit an amount equal to 2.5% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award issued to him.

In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

- (b) In case a Fixed Deposit Receipt of any scheduled bank is furnished by the Contractor to the Employer as part of the Security Deposit and the bank goes into liquidation or for any reason is unable to make payment against the said Fixed Deposit Receipt, the loss caused thereby shall fall on the Contractor and the Contractor shall forthwith on demand furnish additional security to the Employer to make good the deficit of such sum from the running bill as mentioned above. Such deductions will be held by

the Employer by way of security deposit, provided always that the Employer for this purpose shall be entitled to recover the said percentage of the amount from each running bill till the balance of the amount of security deposit is realized. All compensation or the other sums of money payable by the Contractor under the terms of this contract may be deducted from the security deposit or from the interest arising there from or from any sums which may be due to or may become due to the Contractor by the Employer on any account whatsoever and in the event of his/her security deposit being reduced by reason of any such deductions aforesaid, the Contractor shall within ten days make good in cash or further fixed deposit receipt pledged in favor of the Employer. The Security Deposit shall be collected from the running bills of the Contractor at the rates mentioned above and the Earnest Money Deposit if deposited at the time of tenders will be treated as part of the Security Deposit.

- (c) The Contractor if he/she so desires may furnish fixed deposit receipt in advance towards the Security Deposit. Such Fixed Deposit Receipt shall be of a minimum value of Rs. 25000 each (The last such Fixed Deposit Receipt could be of a lower value on the basis of the amount). In case any recovery is effected from running account bills, such recovered amount shall not be replaced with Fixed Deposit Receipt. It is in the Contractor's interest to keep a watch about the adequacy of the Fixed Deposit Receipt submitted.
- (d) No partial refund of Security Deposit shall be made during Defect Liability Period. In case the final bill is not settled within stipulated period for reasons beyond control and the Employer is satisfied that the Security Deposit is not required for adjustment of Employers dues or whatsoever dues either in this or any other contract then this Security Deposit either in full or in part could be refunded at the sole discretion of the Employer. However, release of Security Deposit would be only after written clearance of Labour Officer regarding no dues or claims is received.
- (e) In case of termination of contract, this Security Deposit shall be forfeited and amount necessary to make up this amount shall be recovered from money due to the Contractor under this contract, or any other contract with the Employer.
- (f) Performance Security
 - (i) The Contractor shall be required to deposit an amount equal to 3% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the Letter of Award issued to him. Performance Security may be accepted as Demand Draft or Bank Guarantee of Scheduled Banks and State Bank of India or in the form of Fixed Deposit Receipts pledged in favor of the Employer.
 - (ii) The Contractor shall submit an irrevocable Performance Guarantee of 3 (Three) % of the tendered amount in addition to the Security Deposit of 2.5 (Two and Half) % for his proper performance of the contract agreement (not withstanding and/or without prejudice to any other provisions in the contract) within the period prescribed for commencement of work as in the Letter of Acceptance (LoA) issued to him. This guarantee shall be in the form of fixed deposit receipts pledged in

favor of the Employer or Bank Guarantee of Scheduled Banks of State Bank of India in accordance with the Performa attached. In case fixed deposit receipts of any bank are furnished by the Contractor to Employer as part of the Performance Security and Bank is unable to make payment against the said Fixed Deposit Receipts, the loss caused thereby shall fall on the Contractor and the Contractor shall forthwith on demand furnish additional security to the employer to make good the deficit.

- (iii) The Contractor will not be allowed to start the work unless the Performance Security / Guarantee is submitted by him/her. In case of failure by the Contractor to furnish the Performance Security / Guarantee within specified period, Employer shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the Earnest Money Deposit absolutely.
- (iv) The Performance Security shall be initially valid up to 60 days after recording of satisfactory completion of work by the Employer. In case the time of completion of work gets enlarged, the Contractor shall get the validity of Performance Security extended to cover such enlarge time for completion of work on 60 days thereafter. After 60 days of recording of satisfactory completion of work by the Employer, the Performance Security shall be returned to the Contractor, without any interest.
- (v) The Employer shall not make a claim under the Performance Guarantee except for amounts to which the Employer is entitled under the contract (notwithstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
 - Failure by the Contractor to extend the validity of the Performance Guarantee as described therein above, in which event the Employer may claim the full amount of the Performance Guarantee.
 - Failure by the Contractor to pay the Employer any amount due, either as agreed by the Contractor or determined under any of the clause/ conditions of the agreement, within 30 days of the service of notice to this effect by the Employer.
 - In the event of the contract being determined or rescinded under provisions of any of the clause / condition of the agreement, the Performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Employer.

(39) Completion Certificate

As soon as the work is completed, the Contractor shall give notice of such completion to the Engineer-In-Charge and within 10 (Ten) days of receipt of such notice the Engineer-In-Charge shall inspect the work and shall furnish the Contractor with a certificate of the work and shall furnish the Contractor with a certificate of completion indicating (a) the date of completion (b) defects to be rectified by the Contractor (and/or) (c) item for which payment shall be made at reduced rates. When separate periods of completion have been specified for items or groups of items, the Engineer-In-Charge shall issue separate completion certificate for such items or groups of items. No certificate of completion shall be issued, nor shall the work be considered

to be completed till the Contractor shall have removed from the premises on which the work has been executed all scaffolding, sheds and surplus materials, except such as are required for rectification of defects, rubbish and all huts and sanitary arrangements required for his workmen on the site in connection with the execution of the work, as shall have been erected by the Contractor workmen and cleaned all dirt from all parts of building(s) in, upon or about which the work has been executed or of which the work has been executed or of which he may have had possession for the purpose of the execution there of and cleaned floors, gutters and drains eased doors and sashes, oiled locks and fastenings labelled keys clearly and handed them over to the Engineer-In-Charge or his representative and made the whole premises fit for immediate occupation or use to the satisfaction of the Engineer-In-Charge. If the Contractor shall fail to comply with any of the requirements of this conditions as aforesaid, on or before the date of completion of the works, the Engineer-In-Charge may at the expense of the Contractor fulfil such requirements and dispose of the scaffoldings, surplus materials, and rubbish etc. as he thinks fit and the Contractor shall have no claim in respect of any such scaffolding surplus materials except for any sum actually realized by the sale there of less the cost of fulfilling the requirements and any other amount that may be due from the Contractor. If the expense of fulfilling such requirements is more than the amount realized on such disposal as aforesaid, the Contractor shall forthwith on demand pay such excess.

If at any time before completion of the entire work, items or groups of items for which separate periods of completion have been specified, have been completed, the Engineer-In-Charge with the consent of the Contractor takes possession of any part or parts of the same (any such part) then notwithstanding anything expressed or implied elsewhere in this contract :

- (a) Within ten days of the date of completion of such items or groups of items or of possession of the relevant part of Engineer-In-Charge shall issue completion certificate for the relevant part as in condition 30 above provided the Contractor fulfils his obligation under that condition for the relevant part.
- (b) The Defects Liability period in respect of such items and the relevant part shall be deemed to have commenced from the certified date of completion of such items or the relevant part as the case may be.
- (c) The Contractor may reduce the value insured to extent of full value of the completed items or relevant part as estimated by the Engineer-In-Charge for this purpose. This estimate shall be applicable for this purpose only and for no other.
- (d) For the purposes of ascertaining compensation for delay in completion of the work relevant part will be deemed to form a separate item or group, with date of completion as given in the contract or as extended under the relevant condition and actual date of completion as certified by the Engineer-In-Charge- under this condition.

(40) Removal of workmen

The Contractor shall employ in and about the execution of the works only such persons as are skilled and experienced in their several trades and Engineer-In-Charge shall be at liberty to object to and require the Contractor to remove from the works any person employed by the Contractor in or about the execution of the works who in the opinion of the Engineer-In-Charge misconduct himself or incompetent or negligent in the proper performance of his duties and such person shall not be again employed upon the works without permission of the Engineer-In-Charge.

(41) Uncovering and making good

The Contractor shall uncover any part of the works and/or make opening in or through the same as the Engineer-In-Charge may time to time direct for his verification and shall reinstate and make good such part to the satisfaction of the Engineer-In-Charge. If any such part has been covered up or put out of view after being approved by the Engineer-In-Charge and subsequently found on uncovering to be executed in accordance with the contract, the expenses of uncovering and/or making openings or through reinstating and making good, the same shall be borne by the Institute. In any other case all such expenses shall be borne by the Contractor.

(42) Working during night or on Sundays and holidays

Subject to any provisions to the contrary contained in the contract, none of the permanent works shall be carried out during night or on Sundays or on unauthorized holidays without the permission in writing of the Engineer-In-Charge except when the work is unavoidable or absolutely necessary for the safety of life, property or works in which case the Contractor shall immediately advise the Engineer-In-Charge accordingly.

(43) Urgent works

If any urgent work (in respect whereof the decision of the Engineer-In-Charge shall be final and binding) becomes necessary and the Contractor unable or unwilling at once to carry it out as he may consider necessary. If the urgent work be such as the Contractor is liable under the contract to carry out at his expense, all expenses incurred on it by the Corporation shall be recoverable from the Contractor and be adjusted or set off against any sum payable to him.

(44) Training of Apprentices

The Contractor shall during the currency of the contract when called upon by the Engineer-In-Charge engage and also ensure engagement by Sub-Contractor and other employed by the Contractor in connection with the works, such number of apprentices in the categories mentioned in the Scheduled F and for such periods as may be required by the Engineer-In-Charge. The Contractor shall train them as required under the Apprentices Act, 1961 and shall be responsible for all obligations of the employer under the Act including the liability to make payment to Apprentices as required under the Act.

(45) Escalation

(a) If the prices of materials (not being materials supplied or services rendered at fixed prices by the Department and /or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contractor shall accordingly be varied, subject to the condition that compensation for escalation in prices shall be available only for the work done during the stipulated period of the contract including such period for which the contract is validly extended under the provisions of Clause-33 of Contract without any action under Clause-31 and also subject to the condition that no such compensation shall be payable for a work for which the stipulated period of completion is eighteen months or less. Such compensation for escalation in the prices of materials and labour when due, shall be worked out based on the following provisions.

(i) The base date for working out such escalation shall be the last date on which the tenders were stipulated to be received.

(ii) The cost of work on which escalation will be payable shall be reckoned as 85% of the cost of the work as per the bills, running or final, and from this amount the value of material supplied by the Employer and proposed to be recovered in the particular bill shall be deducted before the amount of compensation for escalation is worked out. In case of materials brought to site for which secured advance is included in the bill full value of such materials as assessed by the Engineer in charge (and not the reduced amount for which secured advance has been paid), shall be included in the cost of work done for operation of this clause. Similarly when such materials are incorporated in the work, the secured advance is deducted from the bill full assessed value of the materials originally considered for operation of this clause shall be deducted from the cost of work shown in the bill running or final. Further the cost of work shall not include any work for which payment is made for any item at prevailing market rates. The cost of work on which the escalation will be payable shall be reckoned as below:

- (A) Gross value of work done up to this quarter
- (B) Gross value of work done up to the last quarter
- (C) Gross value of work done since previous quarter (A-B)
- (D) Full assessed value of Secured Advance fresh paid in this quarter
- (E) Full assessed value of Secured Advance recovered in this quarter
- (F) Full assessed value of Secured Advance for which escalation is payable in this quarter (D-E)
- (G) Advance payment made during this quarter
- (H) Advance payment recovered during this quarter
- (I) Advance payment for which escalation is payable in this quarter (G-H)
- (J) Extra item paid as per clause 15 based on prevailing market rate during this quarter:

Then,

$$X = C \pm F \pm I-J$$

$$Y = 0.85 X$$

- (K) Less cost of material supplied by the Department and recovered during the quarter
- (L) Less cost of services rendered at fixed charges and recovered during the quarter

Cost of work for which escalation is applicable: $W = Y - (K+L)$

(iii) The compensation for escalation for materials & labour shall be worked out as per the formula given below:

$$VM = W \frac{A}{100} \times \frac{MI - M_{Io}}{100}$$

VM - Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

W - Cost of work done worked out as indicated in sub para (ii) above.

A - Component of materials expressed as percent of the total value of work and is predetermined as 75.

MI - Index numbers of Wholesale prices in India for all commodities published by the Reserve Bank of India for the period under reckoning
 MI₀ - Index numbers of wholesale prices in India for all commodities published by the Reserve Bank of India on the date of receipt of tenders.

$$VL = W \frac{B}{100} \times \frac{LI - LI_0}{100}$$

VL - Variation in labour cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

W - Value of work done, worked out as indicated in sub para (ii) above

B - Component of labour expressed as percent of the total value of work and is predetermined as 25.

LI - Minimum wages for Industrial worker published by the Reserve Bank of India for the period under reckoning as for the period under consideration.

LI₀ - Minimum wages for Industrial workers published by the Reserve Bank of India and valid on the stipulated date of receipt of tenders.

- (b) The following principle shall be followed while working out indices mentioned in sub para (iii) above.
- (i) The compensation for escalation shall be worked out as half yearly intervals and shall be with respect to the cost of work done during the six calendar months of the said work. The first such payment shall be made at the end of the eighteen months after the month (excluding) in which the tender was accepted and thereafter at six monthly interval. At the time of completion of work, the last period for payment might become less than six months, depending on the actual date of completion.
 - (ii) The index (MI or LI) relevant to any six months for which such compensation is paid shall be the arithmetical average of the indices relevant to the six calendar months. If the period up to date of completion after the eighteen months covered by the last such instalment of payment, is less than six months, the index MI or LI shall be the average of the indices for the months falling within that period.
 - (iii) The base index (MI or LI) shall be the one relating to the month in which the tender was stipulated to be received.
- (c) In the event the price of materials and/or wages of labour required for execution of the work decreases, there shall be downward adjustment of the cost of work so that the price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard formula herein before stated under this clause shall mutatis mutandis apply, provided that no such adjustment for the decrease in the prices of materials and/or wages of labour aforementioned would be made in case of contracts in which the stipulated period of completion of the work is eighteen months or less.

(46) Over Payments and Under Payments

Whenever any claim for the payment of a sum of money to the arises out of or under this contract against the Contractor the same may be deducted by the Institute from any sum then due or, which at any time thereafter may become due to the Contractor under this contract

and failing that under any other contract with the Institute (which may be available with the Institute) or from his Security Deposit; or he shall pay the claim on demand.

- (a) The Institute reserves the right to carry out post payment audit and technical examination of the final bill including all supporting vouchers, abstracts, etc. The Institute further reserve the right to enforce recovery of any over payment when detected, notwithstanding the fact that amount of the final bill may be included by one of the parties as an item of dispute before an arbitrator appointed under Condition 47 of this contract and notwithstanding the fact than the amount of the final bill figures the arbitration award.
- (b) If as a result of such Audit and Technical Examination any over payment discovered in respect of any work done by the Contractor or alleged to have been done by him under the contract, it shall be recovered by the Institute from the Contractor by any or all of the methods prescribed above or if any underpayment is discovered, the amount shall be duly paid the Contractor by the Institute.
- (c) Provided that the aforesaid right of the Institute to adjust over-payment against amounts due to the Contractor under any other contract with the Institute shall not extend beyond the period of two years from the date of payment of the final bill or in case the final bill is a minus bill, from the date the amount payable by the Contractor under the minus final bill is communicated to the Contractor.
- (d) Any amount due to the Contractor under this contract for under payment may be adjusted against any amount then due or which may at any time there after become due before payment is made to the Contractor, from him to the Institute on any other contract or account whatsoever.

(47) Arbitration

Except where otherwise provided for in Contract all questions and dispute relating to the meaning of the specifications, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of or relating to the contract, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or thereof shall be referred to the sole arbitrations or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Director, IIT (ISM) Dhanbad and that he had to deal with the matters to which the contract related and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the Director, IIT (ISM) Dhanbad as aforesaid at the time of transfer vacation of office of inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract that no person other than a person appointed by the Director, IIT (ISM) Dhanbad, as aforesaid should act as arbitrator and if for any reason, that is not possible, the matter is not to be referred

to arbitration at all. In all cases where the amount of the claim in dispute is Rs. 50,000 (Rupees Fifty thousand only) and above, the arbitrator shall give reasons for the award.

Subject as aforesaid the provisions of the Arbitration Act, 1940 or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause. It is a term of the contract that the party involving arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator's may from time to time with consent of the parties enlarge the time, for making and publishing the award.

The work under the contract shall, if reasonably possible, continue during the arbitration proceedings and no payment due or payable to the Contractor shall be withheld on account of such proceedings.

The Contractor shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing.

The Arbitrator, shall give a separate award in respect of each dispute or difference referred to him.

The venue of arbitrator shall be such place as may be fixed by the arbitrator, in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding all parties of this contract.

(48) Laws governing the Contract

This contract shall be governed by the Indian Laws for the time being in force and it shall be deemed to have been executed at Dhanbad within the ordinary civil jurisdiction of the Competent Courts in the District, Dhanbad, Jharkhand.

(49) Dismantled material

The Contractor shall treat all materials obtained during dismantling of a structure, services sub systems/installations, excavation of the site for a work etc., as employer's property and such materials shall be disposed off to the best advantage of the Employer according to the instructions issued in writing by the Engineer-In-Charge.

(50) Electrical License

In Case of Electrical work, valid Electrical License must be submitted.

SECTION 4

SPECIAL CONDITIONS OF CONTRACT

- (1) These special conditions are meant to amplify the general specifications and general conditions of contract.
- (2) Work shall be done as per CPWD specification with latest correction.
- (3) The work and services to be covered under this specification and the conditions therein are detailed in the following sections of the specification and these sections along with document from a part of this tender specification.
 - Section 1 : Notice Inviting eTender
 - Section 2 : Instruction to Bidders
 - Section 3 : General Conditions of Contract
 - Section 4 : Special Conditions of Contract
 - Section 5 : Additional Conditions of Contract
 - Section 6 : Articles of Agreement
 - Section 7 : Integrity Pact
 - Section 8 : General Information
 - Section 9 : Scope of Work
 - Section 10 : Forms
 - Section 11 : Performa of Schedule A, B, C, D, E and F
 - Section 12 : Preferred Make List
 - Section 13 : Schedule of Quantity
- (4) The contractor shall arrange for all approach facilities at his own cost as may be required during construction period.
- (5) **Completion Time**

The work shall be completed within the time as mentioned in the Work Order duly signed by Engineer- in- charge of IIT (ISM) Dhanbad.
- (6) **Medical Care**

The contractor shall be fully responsible for any first aid and emergency medical treatment to his employees at site. Necessary arrangements for this purpose shall be made by the contractor at site. In serious cases, Medical facilities of Institute may be available to the contractor on permission of the Engineer-In-Charge and chargeable basis.
- (7) **Security Rules & Regulation and Entry Passes**

The contractor will have to submit the details of the persons to be employed this work within two days of award of work. The contractor will be allowed to start the work only after submission of details in prescribed verification forms (in duplicate) along with four nos. passport size photograph and medical fitness certificate for each labour separately to the Competent Authority of IIT (ISM) Dhanbad. Contractor will make necessary Entry Passes for concerned officials of Security Unit, IIT (ISM) Dhanbad, sufficiently in advance. Contractor shall strictly abide by the prevailing security rules and regulation and also to be enforced by IIT (ISM) Dhanbad, time to time. Entry to the works premises is strictly restricted and only bonafide pass (permission) holders are allowed.

(8) **Time frame for payment**

Payment shall be released within 15 days after checking, entries made on Measurement Book (MB) duly signed by the corresponding officials of IIT (ISM) Dhanbad Official and the respective representative of the Contractor. No claim whatsoever shall be entertained for late payment beyond 15 days for reasons attributable to the Contractor.

(9) **Contractor to follow Security Rules and Regulations enforced by the Institute**

The Contractor shall strictly abide by the prevailing Security Rules and Regulation and also to be enforced by the Institute from time to time. Entry to the works premises of the Institute is strictly restricted and only bonafide pass / permission holders are allowed.

(10) In case of any discrepancy, the order of precedence in interpretation shall be as under:

- 1 Schedule of Quantity
- 2 Drawings
- 3 Special Condition of Contract
- 4 General Conditions of Contract
- 5 Additional Conditions of Contract
- 6 BIS Code
- 7 BS and other International Codes
- 8 CPWD Specifications
- 9 Best Engineering practices

(11) The structural and architectural drawings shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the Schedule of Quantities appended with the tender and drawings related to the relevant item the former shall prevail unless and otherwise given in writing by the Engineer-In-Charge.

No payment shall be made to the contractor for any damage caused by rain, snowfall, floods or any other natural cause whatsoever during the execution of work. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.

All materials used shall be as per specifications and ISI marked wherever applicable. ISI marking referred relate to latest BIS code as published by Bureau of Indian Standards up to 30 days before the date of opening the tender.

The Contractor shall give a performance test of the entire installation(s) as per standard specifications and/or as directed by the Engineer and will also submit test certificates as are required by Municipal/ Electrical authority or any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities which shall be reimbursed on production of receipts.

(12) **Cement**

- (a) The contractor shall procure 43 grade (conforming to IS: 8112) Ordinary Portland Cement (OPC)/ Portland Pozzolana Cement (PPC) (conforming to IS: 1489 (Part I) 1991), as required in the work, from reputed manufacturers of cement, having a production-capacity of one million tons per annum or more and holding, license to

use ISI Certification mark for their product whose name shall be got approved from the Engineer-In-Charge / as per Preferred Makes of Material. Supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking, samples of cement arranged by the contractor shall be taken by the Engineer-In-Charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-In-Charge to do so.

- (b) The cement shall be brought at site in bulk supply of approximately 50 Ton or as decided by the Engineer-In-Charge.
- (c) The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the Contractor at site of work for which no extra payment shall be made. Double lock provisions shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer in charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer at any time.
- (d) The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the Institute if the results are as per specifications. If the test results found the properties of cement not as per specification, then the contractor will bear the cost of testing.
- (e) After completion of the work or on determination / termination of the contract, the theoretical quantity of cement to be used in work shall be calculated on the basis of statement showing quantity of cement to be used in different items of work provided in current schedule for the purpose printed by IIT (ISM) Dhanbad. In case, any item is executed for which the standard constants for the consumption of cement are not available in the above mentioned statement or cannot be derived from this statement, the same shall be calculated on the basis of standard formula to be laid down by the Engineer-In-Charge. Over this theoretical quantity of cement, shall be allowed a variation up to 3% plus/minus for works estimated cost of which has put to tender is not more than Rs.10 Lakh and up to 2% plus/minus for works estimated cost of which has put to tender is more than Rs. 10 Lacs. The difference in the quantity actually issued to the contractor and the theoretical quantity including authorized variation, if not returned by the contractor, shall be recovered at twice the issue rate, without prejudice to the provision of other conditions regarding return of materials governing the contract. In the event of its being discovered that the quantity of cement which is less than the quantity ascertained as herein before provided (allowing variation on minus side as stipulated above) the cost of quantity of cement not so used, shall be recovered from the contractor on the basis of stipulated issue rates and cartage to site.
- (f) Cement brought to site and remaining unused after completion of work shall not be removed from site without written permission of the Engineer-In-Charge.

(13) **Steel**

- (a) The contractor shall procure steel reinforcement bars conforming to relevant BIS codes from reputed manufacturers as approved by the Engineer-In-Charge. The contractor shall have to obtain and furnish test certificates to the Engineer-In-Charge in respect of all supplies of steel brought by him/her to the site of work. Samples shall also be taken and got tested by the Engineer-In-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes, the same shall stand rejected and shall be removed from the site work by the contractor at his/her own cost within a week's time from written orders from the Engineer in charge to do so.
- (b) The steel reinforcement shall be brought to the site in bulk supply of 10 ton or more as decided by the Engineer-In-Charge.
- (c) The steel reinforcement shall be stored by the Contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- (d) For checking nominal mass, tensile strength, bend test, re-bend test, etc., specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

<i>Diameter of Bar (mm)</i>	<i>For consignment below 100 Ton</i>	<i>For consignment above 100 Ton</i>
Under 10	01 sample for each 25 Ton or part thereof	01 sample for each 40 Ton or part thereof
10 to 16	01 sample for each 35 Ton or part thereof	01 sample for each 45 Ton or part thereof
Over 16	01 sample for each 45 Ton or part thereof	01 sample for each 50 Ton or part thereof

- (e) The Contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the Department if the results are as per specifications. If the test results found the properties of steel not as per specifications, then the contractor will bear the cost of testing.
- (f) The provision of Special Conditions of Contract shall apply *Mutatis-Mutandis* in the case of steel reinforcement or structural steel sections (each diameter/section or category shall be considered separately) except that the theoretical quantity of the steel shall be taken as the quantity required as per design or as authorized by the Engineer-In-Charge, including lap length, plus 3% wastage due to cutting into pieces. Over this theoretical quantity 2% plus/minus shall be allowed as variation due to wastage.
- (g) Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer in charge.

- (14) The provision of Para 13 (e) of Special Conditions of Contract shall apply *Mutatis-Mutandis* in the case of cables (other than underground cables), wires, conduits/GI pipes, GI/MS

sheets used in various items of work shall be calculated in the basis of measurements recorded in the measurement books for the purpose of payment and for assessing the consumption of materials used in the works. Over this quantity a variation of 5% plus shall be allowed for wastage of materials during execution in case of cables (other than underground cables), wires, conduits/GI pipes, and 10% plus in case of GI/MS sheets.

- (15) Unless otherwise provided in the schedule of quantities, the rates tendered by the Contractor shall apply for all heights, lifts, leads and depths of the work and nothing extra shall be payable on this account.
- (16) The surplus excavated earth which is beyond the requirement of the Employer's work may be allowed by the Employer to be disposed of by the Contractor on his own or sell the surplus excavated earth to private parties at his discretion but nothing extra will be paid for the carriage or disposal of surplus earth if the same is not required for any other work of the Employer.
- (17) CPWD mode of measurement shall be followed.
- (18) Staff to be employed by contractor on works
The contractor shall employ the following technical staff during execution of works:
 - (a) The department also reserves the right to appoint an Engineer for supervising the work at the site & cost of contractor.

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SECTION 5

ADDITIONAL CONDITIONS OF CONTRACT

(1) Compliance with Local Bye-Laws, Rules And Regulations

The work shall be carried out in the manner complying in all respects with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account. The contractor shall give due notices to the Municipality, Gram Panchayat, Police and /or other authorities as may be required under the law / rules under force and obtain all requisite licenses / permissions to carry out the work and pay all charges which may be leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.

In the event of any restrictions being imposed by security and traffic agencies or any other authority having jurisdiction in the area on the working or movement of labour / material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc.

(2) Protection of Existing Structures / Services and Interference with Other Works

The contractor shall protect existing drains, pipes, cables, overhead wires, sewer lines, water lines and other services encountered in the course of execution of the work, and shall repair any damage caused by him at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

The contractor shall carry out his work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed, so as not to interfere with the operations of other contractors. He shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge.

(3) Temporary Electricity and Telephone Connection For Execution of Work

The contractor shall make his own arrangements for temporary electric and telephone connection, if required and make necessary payment including all initial cost, security money and electric / telephone charges for its use direct to the authority concerned. The Engineer-in-Charge will provide all possible assistance by way of reasonable recommendation for obtaining electricity connection to the concerned authorities but bears no responsibility for the same.

(4) All Heights, Lifts, Leads and Depths

Unless otherwise specified in tender document, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

(5) Stacking of Materials

The Contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on

areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.

(6) Damage Caused by Rain, Snowfall, Flood or Any Other Natural Calamity

No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the government property and the work for which payment has been advanced to him

(7) Safety Practices and Supervision

- (i) Necessary protective and safety equipment shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.
- (ii) No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer-in-Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.
- (iii) In addition to the supervision of work by IIT(ISM) Dhanbad, being a client, shall be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by IIT (ISM) engineers to the contractor. Upon receipt of instructions from Engineer- in-Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction.
- (iv) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their record measurements in computerized measurement book duly checked shall be deposited with Engineer-in-Charge or his authorized representative, prior to hiding these items.
- (v) The contractor shall follow “Safety, Health and Environment Handbook 2019” issued by CPWD in 2019.

(8) DE-WATERING

- (i) De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de- watering during construction) and / or as per the specifications approved by the Engineer-in-Charge. Design of an appropriate and suitable dewatering system shall be the Contractor’s responsibility.
- (ii) Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels etc. The

Contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-by to attend to repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable on this account.

- (iii) In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.
 - (iv) For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of the water is required, the contractor shall do the same at his own cost and nothing extra shall be paid. Nothing extra shall be paid for execution of work in or under water and / or liquid mud including pumping out of water as required.
- (9) For avoiding of scratch marks or damage to the vitrified / ceramic floor tile, the necessary arrangement of hessian cloth with a coat of plaster of paris over it shall be provided. Nothing shall be paid extra on this account.
- (10) The original copies of challan/cash memos towards the quantity of various materials procured shall be made available by the contractor at the request from the Engineer-in-Charge and a copy of the same shall be kept in record. Warranty / Guarantees cards of various materials shall also be submitted by the contractor during handing over of the buildings to the client.
- (11) The contractor shall pay all levies, fees, royalties, taxes and duties payable or arising from out of, by virtue of or in connection with and/or incidental to the contract or any of the obligations of the parties in the terms of the contract documents and/or in respect of the works or operation(s) or any part thereof to be performed by the contractor and the contractor shall indemnify and keep indemnified the CVC from the against the same or any default by the contractor in the payment thereof. The quoted rate by the contractor shall be deemed to be inclusive of all taxes and nothing extra shall be paid on this account.

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SECTION 6

ARTICLES OF AGREEMENT

(1) Sample Letter by the Contractor

To

The Superintending Engineer

Indian Institute of Technology (Indian School of Mines) Dhanbad

Police Line, Sardar Patel Nagar, Hirapur

Dhanbad 826 004 (Jharkhand)

Dear Sir:

With reference to the tender invited by you for _____, I/We have examined General Conditions of Contract, Special Conditions of Contract, Additional Conditions of Contract, Articles of Agreement, Tender Notice, Specifications, Schedule of Quantities and all the other relevant documents for the above. I/We hereby offer to execute the whole of the said works in conformity with the said General Conditions of Contract, Special Conditions of Contract, Additional Conditions of Contract, Articles of Agreement, Tender Notice, Specifications, Schedule of Quantities and all the other relevant documents.

Specification and Schedule of Quantities, for the sum of Rs. _____ at a Percentage Rate of _____% as mentioned in the Financial Bid. I/We undertake to complete and deliver the whole lot comprised in the contract within _____ calendar month(s) from the date of commencement of work.

I/We have deposited an Earnest Money Deposit of Rs. _____ with _____ which amount is not to bear any interest and I/We do hereby agree that this sum shall be forfeited by me/us if the event of the Indian Institute of Technology accepting my/our tender. I/We fail to execute the contract when called upon to do so.

I/We hereby agree that unless and until a formal Agreement is prepared and executed in accordance with the Articles of Agreement, this tender together with your written Letter of Acceptance (LoA) thereof, shall constitute a binding Contract between us.

I/We understand that you are not bound to accept the lowest or any tender you may receive.

Yours faithfully

Signature
(Name)
Address

Name of partners of firm

- (1) XXXXX
- (2) YYYYY
- (3) ZZZZZ

(2) Sample Articles of Agreement

ARTICLES OF AGREEMENT made at _____. This _____ day of _____ 2021 between Indian Institute of Technology (Indian School of Mines) Dhanbad (herein after referred to as the **INSTITUTE** which expression shall include its successors and assigns) of the one part and M/s _____ (herein after referred to as the **CONTRACTOR**) which expression shall include its successors and assigns) of the other part WHEREAS the Institute is desirous that certain works should be constructed, _____ and has accepted a Tender by the Contractor for the construction, completion and maintenance of such works now this **AGREEMENT** witnesses as follows:

In this agreement words and expression shall have the same meanings as are respectively assigned to them in the General Conditions of Contract, Special Conditions of Contract and Additional Conditions of Contract herein after referred to.

The following documents shall be deemed to form and be read and construct as part of this agreement:

- (1) Tender Notice: No. _____, Dated: _____
- (2) Tender
- (3) General Conditions of Contract
- (4) Special Conditions of Contract
- (5) Additional Conditions of Contract
- (6) Specifications
- (7) Schedule of Quantity
- (8) Design Data and Technical Specifications (if any)
- (9) General information and Guidance for Tenderers
- (10) Any other document specifically mentioned here in as forming a part of the Agreement.

In consideration of the payments to be made by the Institute to the Contractor as herein after mentioned, the Contractor hereby covenants with the Institute to construct complete and maintain the works in conformity in all respects with the provisions of the contract.

The Institute hereby covenants to pay to the Contractor in consideration of the construction, completion and maintenance of the works, the contract price at the time and in the manner, prescribed by the Contract.

The several parts of this contract have read to us and fully understood by us.

AS WITNESS OUR hand this _____ day of _____ 2021 signed by the said _____ Indian Institute of Technology (Indian School of Mines) Dhanbad in the presence of _____ Signed by the said CONTRACTOR in the presence of _____.

WITNESSES

(1) _____
(Signature, Name and Address)

(2) _____
(Signature, Name and Address)

Place:

Dated:

_____ Signed by the said CONTRACTOR in the presence of _____.

SECTION 7

INTEGRITY PACT

- (1) **Sample Letter by Indian Institute of Technology (Indian School of Mines) Dhanbad, IIT (ISM) Dhanbad**

To

All the bidders

Subject: NIT No. _____, **Dated:** _____ **for the work** *Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.*

Dear Sir:

It is hereby declared that IIT (ISM) Dhanbad is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the Integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IIT (ISM) Dhanbad.

Yours faithfully

Superintending Engineer
IIT (ISM) Dhanbad

(2) Sample Letter by the Bidder

To

The Superintending Engineer
Indian Institute of Technology (Indian School of Mines) Dhanbad
Police Line, Sardar Patel Nagar, Hirapur
Dhanbad 826 004 (Jharkhand)

Name of Work: Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.

Dear Sir:

I/We acknowledge that IIT (ISM) Dhanbad is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IIT (ISM) Dhanbad. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IIT (ISM) Dhanbad shall have unqualified, absolute and unfettered right to disqualify the tenderer / bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

Note

To be signed by the bidder and same signatory competent /authorized to sign the relevant contract on behalf of IIT (ISM) Dhanbad.

(3) Sample Integrity Agreement

This Integrity Agreement is made at _____ on this _____ day of _____ 2021

BETWEEN

Board of Governors (BoG) through Director, IIT (ISM) Dhanbad

AND

(Name and Address of the Individual/firms/Company)

Through (Hereinafter referred to as the _____ (Details of duly authorized signatory) "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

PREAMBLE

WHEREAS the Principal/Owner has floated the Tender (NIT, No. _____, Dated: _____) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for *Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus* hereinafter referred to as the "Contract".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witness as under:

ARTICLE 1

COMMITMENT OF THE PRINCIPAL/OWNER

- (1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

- (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

ARTICLE 2

COMMITMENT OF THE BIDDER(S)/CONTRACTOR(S)

- (1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- (2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - (a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - (b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - (c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of

another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- (3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- (5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

ARTICLE 3

CONSEQUENCES OF BREACH

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- (1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future Contract Award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
- (2) ***Forfeiture of EMD/Performance Guarantee/Security Deposit***
If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

(3) ***Criminal Liability***

If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

ARTICLE 4

PREVIOUS TRANSGRESSION

- (1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/ Contractor as deemed fit by the Principal/ Owner.
- (3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

ARTICLE 5

EQUAL TREATMENT OF ALL BIDDERS/CONTRACTORS/SUBCONTRACTORS

- (1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
- (2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- (3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/ Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

ARTICLE 6

DURATION OF THE PACT

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, IIT (ISM) Dhanbad.

ARTICLE 7

OTHER PROVISIONS

- (1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
- (2) Changes and supplements need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- (4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

ARTICLE 8

LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES

(3) _____
(Signature, Name and Address)

(4) _____
(Signature, Name and Address)

Place:

Dated:

_____ Signed by the said CONTRACTOR in the presence of _____.

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SECTION 8

GENERAL INFORMATION

Project	:	Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.
Address	:	Indian Institute of Technology (Indian School of Mines) Dhanbad Police Line, Sardar Patel Nagar, Hirapur Dhanbad 826 004 (Jharkhand)
Project Site	:	Main Campus Indian Institute of Technology (Indian School of Mines) Dhanbad
Nearest Railway Station	:	Dhanbad (Approximately 3.0 KM)

The information given below is only for the Tenderer's general guidance and Tenderer shall acquaint detailed information in first hand by site investigation of his own before bidding.

(1) **Location**

Indian Institute of Technology (Indian School of Mines) Dhanbad
Police Line, Sardar Patel Nagar, Hirapur
Dhanbad 826 004 (Jharkhand)

(2) **Rate/Percentage**

The tenderers are required to **Quote the Percentage Rate with total quoted amount** against the scope of the work as per Section 9, in both words and figures clearly, failure in this respect is liable to render the tender incomplete.

- (3) The tenderers shall submit along with the tender a list of Construction agreement and machinery in their possession and which they shall bring at site for these construction works.
- (4) If any clarification regarding Specifications, Conditions of Contract etc. or Schedule of Quantity is required, the same can be obtained by the tenderers from the *Office of The Superintending Engineer, IIT (ISM) Dhanbad*.
- (5) In the event of the tender being submitted by a firm (Partnership) it must be signed separately by each member thereof, or in the event of the absence of any partner it must be signed on this behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act.
- (6) Receipts for payment made on account of a week when executed by a firm (Partnership) must also be signed by the partners except whose the contractors are described in their tender as a firm, in which case the receipt must be signed in the name of the firm by one of the partners or by some other persons having authority to give official receipts for the firm.
- (7) Any person who submits a tender shall fill up the usual prescribed form stating at what rate he is willing to undertake each items of the work. The quantities shown there in are approximate only, being a an indication of the scope of the work enable the tenderer to tender for the different or decrease in the quantity of any item of the work ,the actual quantities

executed may be paid for it, the rate stated for that part.

(8) Earnest Money Deposit

Earnest Money Deposit in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of) shall be scanned and uploaded to the e-tendering website within the period of bid submission. The original EMD should be deposited within the period of bid submission. A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. Copy of Enlistment Order and certificate of work experience and other documents as specified in the bid shall be scanned and uploaded to the e-tendering website within the period of bid submission.

Note

If EMD exemption is requested, necessary Declaration in lieu of EMD may be provided as per Annexure V.

(9) Performance Guarantee

The contractor, whose bid is accepted, will be required to furnish Performance Guarantee of 3% (Three Percent) of the bid amount within 15 days. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work

The Performance Guarantee shall be initially valid up to the stipulated date of completion plus minimum 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.

(10) Security Deposit

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit under the contract to deduct a sum at the rate of 2.5% of the gross amount of each Running and Final bill till the sum deducted will amount to security deposit of 2.5% of the tendered value of the work. Such deductions will be made and held by IIT (ISM) Dhanbad by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate

mentioned above in cash or in the form of Government Securities or fixed deposit receipts. In case a fixed deposit receipt of any Bank is furnished by the contractor as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to make good the deficit.

Refund the Security Deposit

One half of the security deposit refundable to the contractor worked out on the basis of the value of work completed shall be refunded to the contractor on the Engineer-in-charge is certifying in writing that the work has been completed. On expiry of the defect's liability period or on payment of amount of the final bill. Security deposit may be payable in accordance whichever is later, the Engineer-in-charge shall on demand from the contractor refunded to him the remaining portion of the security deposit provided the Engineer-in-charge is satisfied that there is no demand outstanding against the contractor.

In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

- (11) If after the tender has been accepted, the tenderer fails to pay the security deposit as specified above, after written notice to him of such acceptance, the sum deposited by him as earnest money may be forfeited. The tender shall not be allowed to increase / withdraw his tender within six months from the date of opening of the tender and if he does so the earnest money deposit may be forfeited.
- (12) The officer inviting tender shall have the right to reject all or any of the tender and will not be bound to accept the lowest.
- (13) The tender form must be filled in English and all entries must be made by the handwritten in ink. All the rates must be filled both in words and figures. If any of the documents is missing or un-signed, the tender will be considered invalid. All erasers and alterations made while filling the tender must be attested by dated initials of the tenderers. Overwriting of the figures is not permitted. To comply with any of these conditions will render the tender invalid. No advice of any change in rates of conditions after the opening of the tender will be entertained.
- (14) Quoted rates must be in words and figures against all items.
- (15) Tender shall be submitted in two separate envelopes. One envelope should contain papers of Earnest Money deposit as per relevant clause and second envelope should contain tender document and schedule of quantities and rates. Each envelope should be properly sealed and super scribed separately with Earnest Money Deposit and tender document with schedule of quantities and rates accordingly.

First of all, only sealed envelope of earnest money deposit will be opened and if earnest money deposit found in order, then only tender document with schedule of quantities and rates will be opened.

- (16) The tenderer should mention their price / items in figure as well as in words. In case of any dispute / ambiguity, the price / rate mentioned in words shall be considered as final.

Insertions, postscripts, additions, and alterations shall not be recognized unless confirmed by tenderers signature. Tenderer shall submit schedule of items(s) and rate(s) triplicate duly signed and stamped on each page.

(17) Contractor will have to follow

The successful tenderers shall have to comply with provision of Contract Labour Act 1970 (Regulation & Abolition), EPF & MP Act 1952 and rules framed thereunder, if applicable to him / them.

- (18) If it is found that labour payment day is not on stipulated payment day is not followed and wage slip is not issued to the labours engaged for this work, IIT shall compel you to stop the work and action will be initiated beside taking suitable steps to make the payment to the labours at risk and cost of the contract.

- (19) Tenders (Technical as well as Price part) shall be submitted in a manner asked for.

(20) Language

English shall be the ruling language. All tenders, drawings, technical data document and/or correspondences shall be in English.

(21) Canvassing prohibited

Canvassing in any form is strictly prohibited and any tenderer found to have resorted to canvassing shall be liable to have his tender rejected summarily.

(22) Misinformation

If the tenderer deliberately gives wrong information in his tender to create circumstances for the acceptance of his tender, the authority reserves the right to reject such tender.

(23) Documents Not Transferable

Tender documents are not transferable.

(24) Not More Than One Tender

Not more than one tender for a work shall be submitted by one contractor or one firm of contractors.

(25) Tender Document Property of The Purchaser

Tender documents in which tender are submitted by a tenderer shall become the property of the purchaser and the purchaser shall have no obligation to return the same to the tenderer.

(26) Tenderer To Bear Expenses

The purchaser shall not be liable for any expenses whatsoever incurred by the Tenderer in the preparation of the tender whether his tender is accepted or not even if the purchaser calls for complete withdrawal of invitation of tender.

(27) Variation and Schedule of Quantities

The quantities set out in the Schedule of items are tentatively estimated quantities only. The actual quantities of the items may vary from those indicated in the tender document

depending upon requirement of the work decided by the Engineer-in-charge with intimation, and individual item may vary to any extent or may be excluded altogether. However, the total executed amount can vary up to 30 % all tender rates shall remain firm within this limit. The contractor are advised to keep the above in mind while quoting their rates.

- (a) Electricity will be provided on Payment.
- (b) Water arranged by the Contractor for Concrete and Masonry work at working site at his own cost from supply point.
- (c) Tools and Tackles: All Tools and Tackles will have to be arranged by the Contractor.
- (d) The list of tools and tackles is attached for reference (The list is indicative only not the exhaustive)

(28) Submission of Tender

Tenders to be in two parts.

Unless otherwise instructed to the contrary all tenders shall be submitted in two parts:

Part I: Technical Bid

Part II: Price Bid

Tenders are to be submitted in double covers. The outer cover should contain the three envelopes, each sealed and marked with NIT No. closing date and name of the work tendered for. One envelope should contain Technical proposal (Part-I of the tender) and the second envelope should contain Price proposal (Part-II of the tender) and the third Separate envelope should contain the documents/proof of submission of the earnest money and all the three envelope should be enclosed in the outer cover, which should be also super scribed with NIT no. date of opening and name of the work quoted for. First of all only Technical part of the offer will be opened and then only Price part will be opened at later date only of the tenderer's who qualify technically.

List of documents to be submitted in Part I: Technical Bid

- (a) Tenderer's covering letter.
- (b) Document showing deposit of earnest money, as asked for, in the NIT in a separate sealed cover and inserting photo/Carbon copy in each copy of the technical bid.
- (c) Filled in proposal exhibit sheets. In case of Price tabulation only confirmation is to be given against each item as regards filling of prices. But the rates of items of work and amount of all the items to be mentioned only in the part-II (Price proposal of the work).
- (d) Signed NIT tender document in the first copy of the tender as per clause 2.2 and confirmation of such enclosure in balance copies.
- (e) List of jobs executed during last 07 (Seven) years with following information :-
 - (i) Name of employer and name of work.
 - (ii) Scheduled completion time with name and nature of jobs with awarded value.
 - (iii) Actual completion time of the work.
 - (iv) Reasons for delay in completion of the job if any.
 - (v) List of jobs, presently in hand as well as under execution along with above information.
- (f) List of construction equipment/Tech. Staff/Manufacturing/Testing facilities available for this contract along with their present conditions/locations.
- (g) Drawing list.
- (h) Other document as may be required to be submitted along with the tender in accordance with Technical specifications, Special conditions and General conditions of NIT Tender Document.
- (i) Financial status, Balance sheet, Profit and Loss Account for last three years.

- (j) Schedule of quantities mentioning description, quantities and units of item without mention of any rate or amount on the same.

List of documents to be submitted in Part II: Price Bid

- (a) Tenderer's covering letter.
- (b) Filled in proposal sheets (mentioned under price proposal in NIT tender document) which included the list of items of work, quantities of each item, rate quoted and amount computed for all items and total value of work.
- (c) Any other documents as deemed necessary.

NIT Tender document to be signed and returned

- (a) All tender papers, which comprise the following, shall be signed and returned with the first copy of tender under Part I.
 - (i) Notice Inviting Tender.
 - (ii) General Information.
 - (iii) Condition of Tendering
 - (iv) Forms
 - (v) General Conditions of Contract
 - (vi) Special Conditions of Contract
 - (vii) Technical Specification
 - (viii) Proposal Exhibit Sheets
 - (ix) Drawings and documents enclosed with the specifications.All pages of tender papers, drawings and documents shall be initialled at the lower right hand corner with ink only and signed by the tenderer or any person holding power of attorney authorizing him to sign on behalf of tenderer.
- (b) Filled in proposal Exhibit Sheets.
- (c) Full statement regarding the status and past experience of the tenderer.
- (d) List of construction equipment/ manufacturing/ Tech. Staff/ Testing facilities available for this contract along with their present conditions/ locations.
- (e) Document showing Earnest Money Deposit.
- (f) Tenderer's covering letter.
- (g) Other documents as may be required to be submitted along with the tender in accordance with Technical Specification, Special conditions of Contract and General Conditions of contract. When the work is awarded and the letter of acceptance issued, these documents shall become an integral part of the Contract. The tenderer shall submit in separate volumes one additional copy of the following documents duly signed by the tenderer without which the tender is liable to rejection.
 - (i) Filled in Proposal Exhibit Sheets.
 - (ii) Full statement regarding the status and past experience of the tenderer.
 - (iii) List of construction equipment/ Tech. Staff/ Manufacturing/ Testing facilities available for this contract along with their present conditions/ locations.
 - (iv) Documents showing earnest money deposit.
 - (v) Tenderer's covering letter.
 - (vi) Confirmation that signed tender papers have been enclosed in original copy of tender.

Number of copies of tender

The tender shall be submitted in two copies. Each self-contained complete in all respect, except that NIT document to be signed and returned only with the first copy and confirmation regarding enclosure to be made in other copies.

All pages to be signed

All pages of the tenderer's offer drawings and other accompanying documents shall be initialed at the lower right hand corner with ink only and signed where required by the tenderer or any person holding power of attorney authorizing him to sign on behalf of tenderer before submission of the tender. All signature shall be dated.

Authorization

In the event of the tender being submitted by a firm, it must be signed by each partner thereof, and in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authorizing him to do so, certified copy of which shall be enclosed. Tender submitted on behalf of complete registered under the Indian Companies Act, for the time being force, shall be signed by persons duly authorised to submit the tender on behalf of the company and shall be accompanied by certified copies of the resolution, extracts of articles of association, special or general power of attorney and other information to show clearly the title authority and designation of persons signing the tender on behalf of the company.

Delivery of tender

The completed tender in at least 2 sets with all accompaniments shall be submitted.

All the two copies of Part I: Technical (including the purchaser's NIT tender document signed and enclosed with the first copy), shall be enclosed in a sealed envelope which shall be superscribed the tender notice number, name of work for which tender is submitted, name of tenderer and date of opening as advertised/notified along with the inscription "**Part I: Technical Bid**".

All the two copies of Part II: Price, shall be enclosed in a separate securely sealed envelope which shall be similarly superscribed but shall have the inscription "**Part II: Price Bid**".

The above two envelopes shall be enclosed in a **Third Sealed Envelope** similarly superscribed and so delivered or sent by registered post to the Purchaser's office inviting tender unless otherwise instructed to the contrary to reach him on or before the date and hour fixed for receiving the tender.

Personal delivery is recommended. Tenderers forwarding tender by post shall do so at their own risks and tenders received after due date and hour shall not be entertained.

Validity of tender

If the tender submitted does not contain all the relevant information or needs clarification on the information furnished and the tenderer is requested to supplement the information or submit clarification, the aforesaid validity period of seventy five days shall be deemed to commence from the date of receipt of the information and clarification called for. Every tenderer is therefore requested to furnish all the relevant information to make the tender complete so as to avoid undue delay in finalization of offers.

Every tenderer shall be deemed to have agreed as aforesaid in consideration of the tender being considered by the purchaser in terms here of, provided the same has been duly submitted and found to be in order. If the tenderer be notified in writing at the address given in the tender within the said period of three months that has been accepted, he shall be bound by the terms of agreement constituted by his tender and such acceptance thereof by the purchaser until a written contract has been executed in place of such agreement.

The tenderer whose tender has been accepted and so notified shall become the **“Successful Tenderer”**.

Qualification Criteria

Tenderer's fulfilling the following criteria shall only be considered as technically qualified. Price bids of only Qualified bidders shall be opened: -

- (1) The Contractor should also have completed job of similar nature in last seven year as under:
 - (a) One Work Order/Job of similar nature, value not less than **80% of Estimated Cost**.
 - (b) Two Work Orders/Jobs of similar nature, value not less than **50% of Estimated Cost**.
 - (c) Three Work Orders/Jobs of similar nature, value not less than **40% of Estimated Cost**.
- (2) Tenderers should enclose relevant documents (copy of Work order, Completion certificate etc.) in support of their credential to justify their qualification as mentioned above in the technical part of the offer.
- (3) The intending tenderer shall have to produce documentary evidence to prove their past experience, capabilities, proven track record and financial resources to do suchtype of work.

SECTION 9

SCOPE OF WORK

The Scope of Work shall be as per given below and any other item/items as per site requirement which is not covered under the above lists but as per the directions of the Engineer-In-Charge.

Tenderers are advised to see the area to get acquainted with the actual features of the land, area, location, etc where work is to be executed and get other related information before quoting their rates for carrying out the work successfully.



APPROXIMATE ESTIMATE CM-1 INDIAN INSTITUTE OF TECHNOLOGY (ISM), DHANBAD CAMPUS MAINTENANCE UNIT

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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
1	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core wire (Make - Polycab/Havells/Finolex) in surface DLP PVC Trunking size - 32 x 12.5 mm. (Make - Legrand, Catalogue no - 0300 15) with Cover (Make - Legrand, Catalogue no - 0105 21) with modular switch (Make - Crabtree, Model - Thames), modular plate (Make - Crabtree, Model - Thames), suitable GI box (Make - Crabtree) and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core wire etc as required.							
a)	Group C.	10	Point.	990	Point.	DSR - 2018 Schedule Code No - 1.13.3	9,900.00	
2	S/fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required (ISI Mark).							
a)	100 mm X 100 mm X 60 mm deep.	2	No.	160	No.	DSR - 2018 Schedule Code No - 1.22.2	320.00	

18/08/2021
 Assistant Engineer (Elect.)

18/08/2021
 Assistant Executive Engineer (Elect.)

Dy. Superintending Engineer.



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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
b)	150 mm X 100 mm X 60 mm deep.	2	No.	165	No.	DSR - 2018 Schedule Code No - 1.22.3	330.00	
c)	200 mm X 150 mm X 60 mm deep.	2	No.	261	No.	DSR - 2018 Schedule Code No - 1.22.7	522.00	
d)	200 mm X 250 mm X 60 mm deep.	1	No.	335	No.	DSR - 2018 Schedule Code No - 1.22.9	335.00	
e)	250 mm X 300 mm X 60 mm deep	3	No.	426	No.	DSR - 2018 Schedule Code No - 1.22.15	1,278.00	
3	S/fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required (Make - AKG/Finolex/Jindal).							
a)	20 mm.	5	Mtr.	84	Mtr.	DSR - 2018 Schedule Code No - 1.21.1	420.00	
b)	25 mm.	5	Mtr.	90	Mtr.	DSR - 2018 Schedule Code No - 1.21.2	450.00	


18/08/2021
Assistant Engineer (Elect.)


15/8/21
Assistant Executive Engineer (Elect.)


Dy. Superintending Engineer.



APPROXIMATE ESTIMATE CM-1
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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
4	S/fixing of 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Make - L & T/Legrand/Schneider/ABB).							
a)	Single pole.	32	No.	199	No.	DSR - 2018 Schedule Code No - 2.10.1	6,368.00	
5	S/fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required (Make - Crabtree/Legrand/Schneider/Siemens).							
a)	1 or 2 Module (75 mm X 75 mm).	8	No.	243	No.	DSR - 2018 Schedule Code No - 1.27.1	1,944.00	
b)	6 Module (200 mm X 75 mm).	1	No.	333	No.	DSR - 2018 Schedule Code No - 1.27.4	333.00	
c)	12 Module (200 mm X 150 mm).	4	No.	434	No.	DSR - 2018 Schedule Code No - 1.27.6	1,736.00	


18/08/2021
Assistant Engineer (Elect.)


18/08/21
Assistant Executive Engineer (Elect.)


18/08/21
Dy. Superintending Engineer.



APPROXIMATE ESTIMATE CM-1
INDIAN INSTITUTE OF TECHNOLOGY (ISM), DHANBAD
CAMPUS MAINTENANCE UNIT

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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
6	S/fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required (Equivalent to Crabtree make, Model - Thames, Make - Make - Crabtree/Legrand/Schneider/Siemens).							
a)	5/6 amps switch.	2	No.	85	No.	DSR - 2018 Schedule Code No - 1.24.1	170.00	
b)	5 pin 5/6 amp socket outlet.	2	No.	111	No.	DSR - 2018 Schedule Code No - 1.24.4	222.00	
c)	15/16 amp switch.	16	No.	132	No.	DSR - 2018 Schedule Code No - 1.24.3	2,112.00	
d)	6 pin 15/16 amp socket outlet.	16	No.	175	No.	DSR - 2018 Schedule Code No - 1.24.5	2,800.00	
e)	Telephone socket outlet.	2	No.	119	No.	DSR - 2018 Schedule Code No - 1.24.6	238.00	
7	S/fixing single pole blanking plate in the existing MCB DB complete etc. as required (Make - L & T/Legrand/Schneider/ABB).	54	No.	8	No.	DSR - 2018 Schedule Code No - 2.11	432.00	


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APPROXIMATE ESTIMATE CM-1
INDIAN INSTITUTE OF TECHNOLOGY (ISM), DHANBAD
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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
8	S/fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required (Make - Make - Crabtree/Legrand/Schneider/Siemens).	4	No.	32	No.	DSR - 2018 Schedule Code No - 1.26	128.00	
9	S/making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required at site (ISI Mark, Make - Dowell/Polycab/Comet).							
a)	2 X 10 sq. mm (19mm).	2	No.	198	No.	DSR - 2018 Schedule Code No - 9.1.2	396.00	
b)	2 X 16 sq. mm (22mm).	1	No.	212	No.	DSR - 2018 Schedule Code No - 9.1.3	212.00	
c)	3½ X 25 sq. mm (28mm).	1	No.	250	No.	DSR - 2018 Schedule Code No - 9.1.20	250.00	
d)	3½ X 50 sq. mm (35mm).	1	No.	329	No.	DSR - 2018 Schedule Code No - 9.1.22	329.00	
e)	3½ X 70 sq. mm (38mm).	1	No.	368	No.	DSR - 2018 Schedule Code No - 9.1.23	368.00	


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
10	S/laying of UTP 4 pair 23 AWG CAT6(U/UTP) Cable (1 Run Cable). Blue/Orange/White/Green in colour conforming to the following standards like ANSI EIA/TIA 568 C.2, EN50173, IEC 11801 3rd ED, frequency tested upto 250Mhz with Third Party Certificate etc. Cable Dia 6.1 ± 0.3 , Cross - member (+) fluted Spine/isolator for uniform separation for all pairs. (Equivalent to Legrand make, Catalogue no - 032755, Make - Legrand/Systemax/Siemon/D Link).	188	Mtr.	49	Mtr.	DSR - 2018 Schedule Code No - 9.1.24	9,212.00	
11	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.							
a)	Upto 35 sq. mm (clamped with 1mm thick saddle)	65	Mtr.	39	Mtr.	DSR - 2018 Schedule Code No - 7.1.1	2,535.00	
12	Supplying, installation, testing & commissioning sector panel suitable for following zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered, complete with all connections, interconnections as required (Make - Legrand/Bosch/Siemens).							


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
a) 4 Zone.		1	No.	8468	No.	DSR - 2018 Schedule Code No - 17.1.1	8,468.00	
13	Supplying, installation, testing & commissioning of smoke detector with built in LED and mounting base complete with all connections etc. as required (make - Bosch/Honeywell/1st Alert).	2	No.	1141	No.	DSR - 2018 Schedule Code No - 17.1.2	2,282.00	
14	S/fixing of stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required (Make - Crabtree, Model - Thames).	2	No.	342	No.	DSR - 2018 Schedule Code No - 1.25	684.00	
15	S/drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.							
a) 4 Pair.		90	Mtr.	29	Mtr.	DSR - 2018 Schedule Code No - 1.18.3	2,610.00	
16	S/drawing of following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required (Make - Polycab/Havells/Finolex).							


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
a)	3 x 1.5 sq. mm.	15	Mtr.	54	Mtr.	DSR - 2018 Schedule Code No - 1.17.3	810.00	
b)	3 x 2.5 sq. mm.	47	Mtr.	75	Mtr.	DSR - 2018 Schedule Code No - 1.17.2	3,525.00	
c)	3 x 4 sq. mm.	92	Mtr.	117	Mtr.	DSR - 2018 Schedule Code No - 1.17.21	10,764.00	
d)	5 x 4 sq. mm.	15	Mtr.	190	Mtr.	DSR - 2018 Schedule Code No - 1.17.23	2,850.00	
e)	3 x 6 sq. mm.	15	Mtr.	167	Mtr.	DSR - 2018 Schedule Code No - 1.17.30	2,505.00	
f)	5 x 6 sq. mm.	63	Mtr.	265	Mtr.	DSR - 2018 Schedule Code No - 1.17.32	16,695.00	


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
17	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in concealed PVC conduit including cutting the wall and repairing the same with plastering and painting after completion of PVC conduit concealed work etc. as required (Make - Polycab/Havells/Finox).							
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire .	10	Mtr.	167	Mtr.	DSR - 2018 Schedule Code No - 1.14.2	1,670.00	
b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	5	Mtr.	200	Mtr.	DSR - 2018 Schedule Code No - 1.14.3	1,000.00	
c)	3 X 6 sq. mm + 1 X 6 sq. mm neutral wire + 1 X 6 sq. mm earth wire.	5	Mtr.	339	Mtr.	Non schedule item	1,695.00	
18	S/installation of 56 inch, 1400 mm sweep Ceiling fan (Equivalent to Havells make, Model - Pacer, Colour - White, Make - Khaitan/Havells/Orient/Crompton).	2	No.	3,016	No.	Non schedule item	6,332.00	


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
19	S/fixing following ways surface/recess mounting, vertical type, 415 volts, VTPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps finned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100/125 amps FP 25 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required) including cutting the wall for concealed of VTPN MCB DB and repairing the same with plastering and painting after completion of VTPN MCB DB concealed work etc. as required.							
a)	8 way (4 + 24), Double door (Euivalent to L & T make, Model - IP 43 Metal Door, Catalogue no - DBVTL008DD, Make - L & T/Legrand/ABB/Schneider).	1	No.	12,448	No.	Non schedule item	12,448.00	
b)	12 way (4 + 36), Double door (Euivalent to L & T make, Model - IP 43 Metal Door, Catalogue no - DBVTL012DD, Make - L & T/Legrand/ABB/Schneider).	1	No.	16860	No.	Non schedule item	16,860.00	


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
20	S/fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator) including cutting the wall for concealed of Horizontal TypeTPN MCB DB and repairing the same with plastering and painting after completion of Horizontal type TPN MCB DB concealed work etc. as required.							
a)	6 way (8 + 18), Double door (Euivalent to L & T make, Model - IP 43 Metal Door, Catelogue no - DBTPN006DD, Make - L & T/Legrand/Schneider).	2	No.	4,459	No.	Non schedule item	8,918.00	
21	S/fixing modular RJ- 45 Krone jack with mounting (Cat - 6) for internet (Equivalent to Make - Crabtree, Model - Athena, Catelogue No. - ACTKJWW451, Make - Crabtree/Legrand/Systemax/Siemon/D Link).	4	No.	502	No.	Non-Schedule-Item	2,008.00	
22	S/fixing of Premium Jack Cat 6 Keystone (Make - Rittal/Valrack/Legrand/Netrack/D Link)	8	No.	214	No.	Non schedule item	1,712.00	


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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
23	S/fixing of 1 Meter Cat 6 U/ UTP Patch Cord, PVC, Performance at 250MHz Should be as per Standards - IEC 61935-2 - Ed. 3.0 ISO/IEC 11801, Usage Temp - 20 to + 60°C, No of Twists 500, No of insertions 750, 24 AWG (Equivalent to Legrand make, Catalogue no - 632750, Make - Legrand/Systemax/Siemon/D Link).	12	No.	256	No.	Non-Schedule-Item	3,072.00	
24	S/fixing of 2 Meter Cat 6 U/ UTP Patch Cord, PVC, Performance at 250MHz Should be as per Standards - IEC 61935-2 - Ed. 3.0 ISO/IEC 11801, Usage Temp - 20 to + 60°C, No of Twists 500, No of insertions 750, 24 AWG (Equivalent to Legrand make, Catalogue no - 632752, Make - Legrand/Systemax/Siemon/D Link).	4	No.	288	No.	Non-Schedule-Item	1,152.00	
25	S/fixing patch panel cat 6, 24 port - Fully Loaded including termination of port at the rack end, complete as required (Equivalent to D-Link make, Catalogue No - NPP-C61BLK241, Make - Legrand/Systemax/Siemon/D Link).	1	No.	3,910	No.	Non-Schedule-Item	3,910.00	
26	S/fixing 6U wall mounted networking rack with lockable front glass door, 6U x 550W x 450D (Loaded) powder coated crc sheet made etc.as required.(Equivalent to D - Link make, Catalogue no - NWR - 6U - 5045 - GR, Make - Legrand/Systemax/Siemon/D Link).	1	No.	5,578	No.	Non-Schedule-Item	5,578.00	


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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
27	S/fixing 24 port Giga Managed Switch, 10/100/1000 mbps 4 x 10G SFP (Equivalent to D- Link make, Catalogue No - DGS - 1510 - 28X, Make - Legrand/Systemax/Siemon/ D Link).	1	No.	40,624	No.	Non-Schedule-Item	40,624.00	
28	S/fixing 6 A Modular indicator lamp (Make - Make - Crabtree/Legrand/Schneider/Siemens).	2	No.	99	No.	Non-Schedule-Item	198.00	
29	S/fixing 63A TP MCB (Equivalent to L & T make, C Curve, 10kA, Catalogue No. - BB30630C, Make - L & T/ Legrand/Schneider/ ABB).	2	No.	1,576	No.	Non schedule item	3,152.00	
30	S/fixing of 63 A FP MCB (Equivalent to L & T make, C Curve, 10kA, Catalogue No. - BB40630C, Make - L & T/ Legrand/Schneider/ ABB).	2	No.	1,967	No.	Non schedule item	3,934.00	
31	S/fixing of 100 A, 4P, 25KA, MCCB with spreader link (Equivalent to L & T make, Type - DN0-100C, Model - D - shine, Catalogue No - CM9171200KOOO, Make - L & T/ Legrand/Schneider/ ABB).	2	No.	8,512	No.	Non schedule item	17,024.00	
32	S/fixing of 20 pair Krone DP with Metal box for telephone.	1	No.	616	No.	Non-schedule item.	616.00	


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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
33	S/installation of 31W surface mounted LED light fitting/fixture with connection, testing etc.as required. (Make - Philips, Model - Cirrus Surface, Catalogue No - SM365C LED32-6500 PSU-OD WH) (Contractor will submit the LM79 & LM80 report with 2 years warranty certificate issued by the manufacturer of the above luminaire before installation) (Make - Philips/Havells/Crompton).	8	No.	5,089	No.	Non Schedule Item	40,712.00	
34	S/installation of 32 x 12.5 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0300 15, Make - Legrand/Leviton/Cope).	22	Mtr.	101	Mtr.	Non-Schedule-Item	2,222.00	
35	S/installation of End Cap (right or left) for above 32 x 12.5 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0312 03, Make - Legrand/Leviton/Cope).	1	No.	53	No.	Non-Schedule-Item	53.00	
36	S/installation of Flat junction for above 32 x 12.5 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0302 54, Make - Legrand/Leviton/Cope).	4	No.	104	No.	Non-Schedule-Item	416.00	


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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
37	S/installation of 32 x 20 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0300 17, Make - Legrand/Leviton/Cope).	24	Mtr.	139	Mtr.	Non-Schedule-Item	3,336.00	
38	S/installation of End Cap (right or left) for above 32 x 20 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0312 09, Make - Legrand/Leviton/Cope).	1	No.	108	No.	Non-Schedule-Item	108.00	
39	S/installation of Flat junction for above 32 x 20 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0302 74, Make - Legrand/Leviton/Cope).	2	No.	102	No.	Non-Schedule-Item	204.00	
40	S/installation of White 32 x 16/20 mm. Cover Joint for above 32 x 20 mm. DLP PVC Mini - Trunking System (Body with Cover) (Equivalent to Legrand make, Catalogue no - 0336 04, Make - Legrand/Leviton/Cope).	1	No.	102	No.	Non-Schedule-Item	102.00	
41	S/installation of 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0104 12, Make - Legrand/Leviton/Cope).	32	Mtr.	574	Mtr.	Non-Schedule-Item	18,368.00	


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Name of the Work : Electrical Renovation of Room no - 205 and 206 at the Dept. of FMME.

Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
42	S/installation of 65 mm. width full flexible Cover for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0105 21, Make - Legrand/Leviton/Cope).	32	Mtr.	280	Mtr.	Non-Schedule-Item	8,960.00	
43	S/installation of Separation partition (Equivalent to Legrand make, Catalogue no - 0105 82, Make - Legrand/Leviton/Cope).	72	Mtr.	190	Mtr.	Non-Schedule-Item	13,680.00	
44	S/installation of Clip-on partition - Plastic (Equivalent to Legrand make, Catalogue no - 0104 72, Make - Legrand/Leviton/Cope).	32	Mtr.	280	Mtr.	Non-Schedule-Item	8,960.00	
45	S/installation of Body/Base joint - For aligning bases during installation for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0106 91, Make - Legrand/Leviton/Cope).	1	No.	62	No.	Non-Schedule-Item	62.00	
46	S/installation of Cover joint for 65 mm width for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0108 01, Make - Legrand/Leviton/Cope).	1	No.	108	No.	Non-Schedule-Item	108.00	
47	S/installation of 90° flat angle for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 67, Make - Legrand/Leviton/Cope).	6	No.	567	No.	Non-Schedule-Item	3,402.00	

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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
48	S/installation of Left or right end cap for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 02, Make - Legrand/Leviton/Cope).	1	No.	140	No.	Non-Schedule-Item	140.00	
49	S/installation of Flat junctions to tap-off to a branch smaller than 50 x 105 for above 80 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 32, Make - Legrand/Leviton/Cope).	1	No.	735	No.	Non-Schedule-Item	735.00	
50	S/installation of 150 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0104 32, Make - Legrand/Leviton/Cope).	72	Mtr.	1,212	Mtr.	Non-Schedule-Item	87,264.00	
51	S/installation of 130 mm. width full flexible Cover for above 150 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0105 24, Make - Legrand/Leviton/Cope).	72	Mtr.	678	Mtr.	Non-Schedule-Item	48,816.00	
52	S/installation of Cover joint for 130 mm width for above 150 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0108 04, Make - Legrand/Leviton/Cope).	1	No.	286	No.	Non-Schedule-Item	286.00	


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Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
53	S/installation of 90° flat angle for above 150 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 89, Make - Legrand/Leviton/Cope).	2	No.	1,955	No.	Non-Schedule-Item	3,910.00	
54	S/installation of Left or right end cap for above 150 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 07, Make - Legrand/Leviton/Cope).	1	No.	332	No.	Non-Schedule-Item	332.00	
55	S/installation of Flat junction for specific size - tap off to an 105 mm wide branch with 65 mm cover for above 105 x 50 mm. DLP PVC Trunking System (Body without Cover) (Equivalent to Legrand make, Catalogue no - 0107 36, Make - Legrand/Leviton/Cope).	2	No.	417	No.	Non-Schedule-Item	834.00	
56	Making of Fan Hook or Clamp in the Roof with Plasing etc. for Ceiling Fan.	2	No.	250	No.	Non-schedule item.	500.00	
57	Concealed of existing AC Point.	2	No.	25	No.	Non schedule item	50.00	
58	Concealed of existing wiring for AC.	35	No.	21	No.	Non schedule item	735.00	
59	Dismantalling of existing copper wiring circuit.	55	Mtr.	19	Mtr.	Non schedule item	1,045.00	
60	Re-laying of copper wire.	45	Mtr.	21	Mtr.	Non schedule item	945.00	
61	Dismantling of existing SP MCB from old DB and re-fixing the same in new TPN DB.	18	No.	15	No.	Non schedule item	270.00	


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Location : Dept. of FMME.

Item Nos.	Particulars of item	Quantity	Unit	Rate	Per	Reference Schedule Page No. etc.	Amount (in Rs.)	Remarks
62	Disconnection of wire/cable from existing old DBs and re - connect the same in new DBs.	1	Job.	850	Job.	Non Schedule Item	850.00	
63	Transportation charge for dismantled electrical accessories from site to CMU Store.	1	Job.	250	Job.	Non Schedule Item	250.00	
64	Dismantling of cables from Surface.	65	Job.	19	Mtr.	Non Schedule Item	1,235.00	
65	Dismantling of existing all electrical accessories like old ICTPN Type DBs with aluminium sheet cover, wirings, fans, light fittings etc..as required.	2	Job.	950	Job.	Non-schedule item.	1,900.00	
						Total	4,76,926.00	
						Add Cost Index @ 3.39% on DSR Items	3,295.18	
						Add GST @ 12% on Non schedule item	45,566.76	
						Net Total	5,25,787.94	
						Say	5,25,788	


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SECTION 10

FORMS

Annexure I

DETAILS OF CREDENTIALS/INFORMATION SHEET ABOUT THE TENDERER/CONTRACTOR

(To be filled-in by the Tenderer/ Contractor)

Sl. No.	Items	
1	Name of the Firm/Company of the Tenderer	
2	Name & address of the Chief Executive/ Chairman and Managing Director of the Firm with Telephone no. if any	
3	Registered Office and address of the firm With Telephone and Fax no. if any	
4	Address for Correspondence/ all communications with the firm	
5	Name, designation, address of the person authorised to deal with this tender/work	
6	Nature of the registration of the firm	Limited Co. / Private Ltd./Partnership Co./ Proprietorship firm
7	Registration No. with date and Registering Authority	
8	Address of the office/work site of the tenderer, nearest to the place of the work being tendered	
9	Name of Directors/Partners	Occupation
		Address

10. Particulars about the professional persons employed by the firm :

Name of the professional persons & Address	Qualification	Experience in no. of years	Nature of experience	Date of joining

11. Details of the work experience of the firm :

Name & Address of the client	Name of the work & Contract No.	Value (Rs.)	Completion time	
			Scheduled	Actual

12. Financial Particulars:

Sl. No.	Items	
a	Authorized capital	
b	Paid up capital	
c	Working capital-limit in cash/credit for, bill Purchase/discount-forms etc. from the bank	Branch:
d	Loans and Advance taken	Value of Rs.
e	Loan and advances outstanding	

Value of work/Turn over done during preceding three years:

Financial year	Value of work	Income Tax deposited

13. Audited balance sheet and profit and loss :
14. Account for the last 3 years :
15. Income Tax/PAN/GIR No :
16. PF No. :
17. GST No. :
18. Excise Duty Regd. No. :
19. Contract Labour Regulation & Abolition Act,
Regd. No. :
20. Any other relevant Regn. No. if any :
21. Details of ownership of various construction
equipment's furnished as enclosed :
22. Name and signature of Authorised
Representative of Tenderer/Contractor :

**LIST OF SIMILAR JOBS ONLY EXECUTED DURING LAST 7 YEARS
(STARTING FROM MOST RECENT JOB)**

Year	2020	2019	2018	2017	2016	2015	2014
Name of work							
Name & Address of client with Contact No.							
Contract value							
Completion period							
Date of commencement							
Date of completion							
Reasons for delay, if any							
Completion cost including all materials							
Completion certificate enclosed (Yes/No)							
Dispute, if any (Yes/No)							

Note: Extra sheets can be enclosed, if the above space is not sufficient

Annexure-III**LIST OF OTHER CIVIL CONSTRUCTION JOBS (LIKE THOSE INDICATED IN ANNEXURE-II) EXECUTED DURING LAST 7 YEARS STARTING FROM MOST RECENT JOB.**

Year	2020	2019	2018	2017	2016	2015	2014
Name of work							
Name & Address of client with Contact No.							
Contract value							
Completion period							
Date of commencement							
Date of completion							
Reasons for delay, if any							
Completion cost including all materials							
Completion certificate enclosed (Yes/No)							
Dispute, if any (Yes/No)							

Note: Extra sheets can be enclosed, if the above space is not sufficient

Annexure - IV**LIST OF EQUIPMENT/MACHINERY OWNED BY THE TENDERER**

Sl. No.	Name of equipment/Machinery	Year of Manufacture	Quantity	Capacity of Equipment	Supporting document enclosed (Yes/No)
1					
2					
3					
4					
5					
6					

Performa for Earnest Money Deposit Declaration

Whereas, I/we..... (name of agency) have submitted
 bids (Name of work).....

I/we hereby submit following declaration in lieu of submitting Earnest Money Deposit.

- (1) If after the opening of tender, I/we withdraw or modify my/our bid during the period of validity of tender (including extended validity of tender) specified in the tender documents,

or

- (2) If, after the award of work, I/we fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents,

I/we shall be suspended for one year and shall not be eligible to bid for IIT (ISM) tenders from date of issue of suspension order.

Signature of the contractor(s)

Annexure VI

SL. No.	Category of labourer	Wages per day (Rs.)	Remaks.
1.	Un-skilled labourer	Contractor's are required to enquire from time to time from the Stage govt. authorities the minimum wages rate payable and pay to the workmen accordingly.	

Signature of Issuing Officer

Signature of Contractor

Date :

Date :

Note :- It will be the responsibility of the Contractor to check-up time to time from the State Government Authority minimum wages rate and pay to the accordingly.

Classification of Accidents

Type - A

- (1) Fatal Injuries.
- (2) Serious injuries such as fracture, dislocation, severe burns necessitating hospitalization
- (3) Any injury to five or more persons.
- (4) Accidents resulting in damage by fire, explosion etc.

Type - B

- (1) Minor Injuries which result in Laceration, Abrasion, contusion etc. Disabling Injuries but not requiring hospitalization

**Accident Investigation Report
(FORM - A)**

Name of the Contractor and Project	:	
Nature of the contract	:	
Name of the Engineer-in-charge	:	
Name of the Injured person	:	
Age	:	
Address	:	
Date and Time of Accident	:	
Place where the accident occurred	:	
Nature of job	:	
What was the injured person doing	:	
At the time of accident ?	:	
Description of accident (in detail)	:	
Nature of injures	:	
What was defective or in wrong condition that was: Responsible for the accident?	:	
What was wrong with working methods instructions?	:	
What steps should be taken to prevent/recurrence of such accident ?	:	
Name of the Witness	:	
Safety representative's remarks with signature and date	:	

(FORM – B)

SUMMARY OF ACCIDENT FOR THE MONTH OF

Name of the Contractor:

Name of the Project:

Name of the Sub-Contrator:

Name of the Representative of the Project
Safety:Total no. of persons working In the
project:

Male

Female

Engineer:

Supervisor:

Labourers:

Total nos. of accidents (including type 'A' & 'B' accident)

Disabling Injuries:

Non-Disabling Injuries:

Agency**No. of days lost / changed**

Machine

Handling Materials

Full of persons Hand tools

Fire / Explosive

Collapse of excavation / structure Electric shock / burn Miscellaneous

Remarks:

Form of Performance Security (Guarantee)**Bank Guarantee Bond-Format**

Form of Performance Security (Guarantee) Bank Guarantee Bond-Format - I In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between.....and (hereinafter called "the said Contractor(s)") for the work..... (hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs. (Rupees only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement. 1. We, (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees..... Only) on demand by the Government. 2. We,(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly) 3. We, the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment. 4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. 5. We, (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us. 6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s). 7. We, (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing. 8. This guarantee shall be valid up tounless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees.....) and unless a claim in

writing is lodged with us within six months of the date of expiry or the extended date of expiry of this 105 guarantee all our liabilities under this guarantee shall stand discharged. Dated theday offor.....(indicate the name of the Bank)

FORM

INDENTURE FOR SECURED ADVANCES

(For use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

THIS INDENTURE made the..... day of20..... BETWEEN (hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the Board of Governors (hereinafter called the President which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated..... (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the Board of Governors that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the Board of Governors has agreed to advance to the Contractor the sum of Rupees on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor onand the Board of Governors has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupeeson or before the execution of these presents paid to the Contractor by the President (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the Board of Governors and declare as follows: -

- (1) That the said sum of Rupeesso advanced by the Board of Governors to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the President as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the Board of Governors against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Director, IIT (ISM) Dhanbad Division (hereinafter called the Director, IIT (ISM) Dhanbad) and in the term of the said agreement.

- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Director, IIT (ISM) Dhanbad or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Director, IIT (ISM) Dhanbad.
- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Director, IIT (ISM) Dhanbad or an officer authorised by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the Director, IIT (ISM) Dhanbad of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Director, IIT (ISM) Dhanbad will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Director, IIT (ISM) Dhanbad shall immediately on the happening of such default be repayable by the Contractor to the Director, IIT (ISM) Dhanbad together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the President in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the President to repay and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Director, IIT (ISM) Dhanbad of the said sum of Rupeesand any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the Director, IIT (ISM) Dhanbad may at any time thereafter adopt all or any of the following courses as he may deem best :-

- (a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay same to the Director, IIT (ISM) Dhanbad on demand.
 - (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the Director, IIT (ISM) Dhanbad under these presents and pay over the surplus (if any) to the Contractor.
 - (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 47 of the contract.

In witness whereof the saidandby the order and under the direction of the President have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by..... the said contractor in the presence of

Signature

Witness Name

Address

Signed by.....

by the order and direction of the Director, IIT (ISM) Dhanbad in the presence of

Signature

Witness Name

Address

SECTION 11

PERFORMA OF SCHEDULE A, B, C, D, E AND F

SCHEDULE 'A'

Schedule of quantities

- (a) For Civil component of work attached at pages NA
- (b) For Electrical component of work attached at pages 71-89

SCHEDULE 'B' :

Schedule of materials to be issued to the contractor

Sl. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
----- NIL -----				

SCHEDULE 'C'

Tools and plants to be issued to the contractor

Sl. No.	Description	Hire charges per day	Place of issue
1	2	3	4
----- NIL -----			

SCHEDULE 'D'

Extra schedule for specific requirement/ documents for the work, if any

----- NIL -----

SCHEDULE 'E'

1. Reference to General Conditions of Contract : General Conditions of contract as per SECTION 3.

2. **Name of work :** Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus.

Estimated cost of work: Estimated Cost Rs. Rs. 5,25,788.00

- | | | |
|-------|-----------------------|--|
| (i) | Earnest Money | Rs. NIL/- (As per attached Annexure – V of EMD Deceleration) |
| (ii) | Performance Guarantee | 3 % of Contract Value |
| (iii) | Security Deposit | 2.5 % of Bill Amount |

SCHEDULE 'F'		
	General Rules & Directions :	
	Officer inviting tender	
	Maximum percentage for quantity of items of work to be executed beyond which rates are to determined in accordance with Clause 7	See Below
	Definitions	
	Engineer-in-charge	
	Accepting Authority	
	Percentage on cost of materials and labour to cover all overhead & profits	15%
	Standard schedule of Rates	<i>DSR 2018 with correction slips up to last date of submission of bid.</i>
	Department	
	Standard IIT (ISM) Dhanbad contract Form	General Conditions of contract as per SECTION 3.

CLAUSE 1

- | | | |
|------|--|---------|
| (i) | Time allowed for submission of Performance guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. or proof of applying thereof from date of issue of letter of acceptance. | 07 Days |
| (ii) | Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above | 07 Days |

- (iii) The lowest bidder shall have to execute MOU with OEM in case of lift and OEM/ Authorized service center of OEM for execution of comprehensive maintenance of E & M services. The lowest bidder shall have to submit all MOUs within 10 days from date of opening of Price bid. Only on receipt and verification of all MOUs, the engineer-in-charge shall award the work. In case of Non submission or partial submission of MOUs the work shall not be awarded and the agency shall be suspended for 1 year and shall not be eligible to bid for IIT (ISM) tender from date of issue of suspension order. (As per EMD deposit declaration) 10 Days

CLAUSE -2

Authority for fixing compensation for not attending the complaint or non deployment of labour as per time limit mentioned in Special Condition of Contract as per Section 4 The Director

CLAUSE 3

Number of days from the date of issue of letter of acceptance for reckoning date of start of work 7 Days

Time allowed for execution of work 30 Days

Authority to decide

- (i) Extension of time : The Director, IIT (ISM) Dhanbad
- (ii) Rescheduling of mile stones : The Director, IIT (ISM) Dhanbad
- (iii) Shifting of date of start in case of delay in handing over of site : The Director, IIT (ISM) Dhanbad

Clause 3.1			
(a) Schedule of Handing over of site.			
Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of acceptance
1	2	3	
Site is available			
(b) Schedule of issue of Designs.			
Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of acceptance
1	2	3	
-NA-			

Clause 3.2		
Nature of Hindrance Register	:	Physical
CLAUSE 4		
All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book	:	Yes
CLAUSE 5		
Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment		Monthly payment shall be made to contractor on submission of monthly RA bill.
CLAUSE 6		
No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.	:	Yes

CLAUSE 7

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 7 :	
<p>In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) submit market rate claim rates, supported by proper analysis which shall include invoices, vouchers etc. and Manufacturer's specification for the work failing which the rate approved later by the Engineer- in- charge shall be binding and the Engineer-in-Charge shall within prescribed time limit of the receipt of the claims supported by analysis , after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined, failing which it will be deemed to have been approved Deviation, Substituted Items.</p> <p>In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined</p> <p>(a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p> <p>(b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the</p>	No Limit

substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted). In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates (as per invoice, vouchers from the manufacturers or suppliers submitted by the agency and duly verified by Engineer in Charge or his representative) and the contractor shall be paid in accordance with the rates so determined. The prescribed time limit for finalizing rates for Extra Item(s), Substitute Item(s) and Deviated Quantities of contract items is within 45 days after submission of proposal by the contractor without observation of the Engineer-in-Charge.	
The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.	
Competent Authority for deciding reduced rates.	The Director, IIT (ISM) Dhanbad

CLAUSE 8

List of machinery, tools & plants which may require to be deployed by the contractor at site.	
Note: Requirement of above T&P is tentative which may be changed by Engineer-in-charge as per requirement of work & site.	

Clause 9:

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection	The Director, IIT (ISM) Dhanbad to decide penalty for each default Clause
--	--

therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty as decided by the authority for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.	
---	--

Clause 10:

<p>The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:-</p> <ol style="list-style-type: none"> (1) the number of labourers employed by him on the work, (2) their working hours, (3) the wages paid to them, (4) the accidents that occurred during the said for night showing the circumstances under which they happened and the extent of damage and injury caused by them, and (5) the number of female workers who have been allowed maternity benefit and the amount paid to them. Failing which the contractor shall be liable to pay to Government, a sum as decided by the authority for each default or materially incorrect statement. The decision of the Director, IIT (ISM) Dhanbad shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor. 	The Director, IIT (ISM) Dhanbad or equivalent officer in charge of work authority to decide penalty for each default Clause
--	---

Clause 11

In the event of the contractor(s) committing a default or breach of any of the provisions of the Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and' Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum as decided by the authority for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to as decided by the authority per day for each day of default subject to a maximum of 5 percent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.	The Director, IIT (ISM) Dhanbad or equivalent officer in charge of work authority to decide penalty for each default Clause
---	---

Clause 12

The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from Training Institute/Industrial Training	The Director, IIT (ISM) Dhanbad or equivalent officer in charge of work
--	---

<p>Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in- Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores. For work costing more than Rs. 10 Crores, and uptoRs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. For work costing more than Rs. 50Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in coordination with the National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. The cost of such training as stated above shall be born by the Government. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained.</p>	<p>authority to decide penalty for each default Clause</p>
--	--

Clause 13

<p>Constitution of Dispute Redressal Committee (DRC) - to be nominated by The Director, IIT)ISM) Dhanbad having jurisdiction of the work</p>

SECTION 12**Preferred Makes of Material****LIST OF PREFERRED MAKES FOR ELECTRICAL WORKS**

Unless otherwise specified, the brand / make of the material as specified in the item nomenclature, in the particular specifications and in the list of preferred make attached in the tender, shall be used in the work.

In case of non-availability of the brand specified in the contract the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand.

Sample of all the materials will be used only after approval of Superintending Engineer, IIT (ISM) Dhanbad.

FOR INTERNAL ELECTRICAL INSTALLATION, STREET LIGHTING & FIXTURES

Sl. No.	Items	Approved Makes / Brands
1	LT panels/ boards, Feeder panels.	TRICOLITE, ADLEC, ADVANCE PANLES & SWITCHGEAR (P) LTD., STERLING GENERATOR, MARINE ELECTRICALS, ASSOCIATED SWITCHGEARS & PROJECTS LTD., PRECISION SYSTEM CONTROL,
2	MCCBS	SIEMENS-3VL, L&T- D-SINE, SCHNEIDER- NSX, ABB- T-MAX, LEGRAND – DPX3
3	ACB's	ABB (E-MAX) / SCHNEIDER (MASTERPACT NW) / L&T (U-Power Omega) / SIEMENS (3WL) / LEGRAND (DMX3)
4	MCB, ELCB, RCCB, DB and RCBO. Distribution board shall be of the same make of MCB, ELCB, RCCB, DB and RCBO.	SIEMENS (BETAGUARD), L&T (AU), SCHNEIDER (ACTI-9), LEGRAND (DX3),
5	LT cables, 1.1 KV grade	KEI, HAVELLS, POLYCAB, RR KABEL
6	FRLS copper wires and cables, 1.1 KV grade	KEI, HAVELLS, POLYCAB, RR KABEL, L&T
7	Switch Socket accessories.	LEGRAND (ARTEOR),SCHNEIDER (ZENCELO), MK (ELEMENTS), CRABTREE (MURANO), L&T (Englaze)
8	Lugs and Ferrules	DOWELLS, JAINSON, GRIPWELL, RAYCHEM
9	Brass Compression Gland (Heavy duty)	COMMEX, GRIPWELL,HENSEL, DOWELLS

10	Telephone Cables	FINOLEX, HAVELLS, ANCHOR, POLYCAB, RR KABEL
11	Telephone Tag Blocks with boxes	KRONE, POUYET
12	PVC Conduits and Accessories (ISI Marked, Heavy duty)	BEC, PRECISION, POLY-PACK
13	MS Conduit and Pipes	BEC, AKG, VIMCO, RMCON
14	MS Conduit Accessories (Heavy duty) (ISI MARKED)	BEC, AKG, VIMCO, RMCON
15	Pipes and Accessories (ISI)	TATA, JINDAL, SAIL
16	Indoor Light Fixtures	PHILIPS, TRILUX, ENDO, REGENT, LIGHTING TECHNOLOGIES.
17	Water cooler with UV+UF	BLUE STAR, VOLTAS, WHIRLPOOL
18	Hand Dryer	EURONICS, MITSUBISHI, DOLPHY
19	Street /landscape LED Light Fixtures	PHILIPS, KESLEC - SHREDDER, TRILUX, LIGHTING TECHNOLOGIES.
20	LED Chip for Street /landscape LED Light Fixtures	CREE, PHILIPS, OSRAM, NICHIA
21	Street Light Poles	KESLEC, PHILIPS, VALMONT
22	Decorative Street / Compound Light Poles	KESLEC, PHILIPS, VALMONT
23	4 Way Junction Box with fuse / MCB with heavy duty loop connector in poles	LEGRAND, SCHNEIDER, ABB, L& T
24	Emergency Exit Light	LEGRAND, PHILIPS, WIPRO
25	Selector Switch	RISHAB -L&T, KAYCEE, SIEMENS, C&S
26	CT/PT	AE, GILBERT, PRECISE, KAPPA, ANANT POWERTECH
27	Aviation Light	BAJAJ, WIPRO, PHILIPS
28	Photo Chromatic Switch	BAJAJ, WIPRO, PHILIPS
29	Annunciation Panel	CROMPTON, AREVA, SIEMENS, KIRLOSKAR
30	Terminal Blocks	BCH, INDUSTRIAL CONTROL, JAINSON
31	Change Over Switch	L&T, SOCOMEC, SIEMENS, HAGER
32	Bus bar	JINDAL, HINDALCO, CENTURY
33	Sandwich type bus trunking (Rising main)	LEGRAND / SCHNEIDER / L&T / C&S / ANANT POWERTECH
34	ATS	ABB / Siemens / Socomec / Asco
35	Chemical Earthing	JEFECOSAFE, ERICO, TEREPLUS
36	GI pipes	JINDAL, TATA, SAIL
37	Copper conductor PVC insulated Wires	KEI, HAVELLS, POLYCAB, RR KABEL
38	Timers & Contactors to be mounted in DB's	L&T, SIEMENS, SCHNEIDER, HAGER, LEGRAND
39	MV Contactors/Timer/Starters	L&T, SIEMENS, SCHNEIDER, LEGRAND
40	Protective Relays	AREVA, SIEMENS, L&T, ALSTOM, SCHNEIDER

41	kWh Meters (Electronic Digital type)/Multifunction Meter/ Ammeter/ Voltmeter)	CONZERV, SECURE, CAPITAL, L&T
42	Indication Lamps/Push Button	L&T, BCH, GE
43	Ceiling/Exhaust Fans	CROMPTON GREAVES, ORIENT, HAVELLS
44	G.I. Cable Tray	SLOTTCO/ LEGRAND/ OBO / PROFAB
45	Raceway	LEGRAND, MK, SCHNEIDER, OBO
46	PVC MODULAR DLP TRUNKING	LEGRAND, MK, SCHNEIDER, OBO
47	TV outlet	LEGRAND (ARTEOR), SCHNEIDER (ZENCELO), MK (ELEMENTS), CRABTREE (MURANO) L&T (Englaze)
48	DWC HDPE PIPE	SUPREME,JAIN,KISSAN,GEMINI
49	Poly carbonate Junction Boxes	HENSEL, CLIPSAL, MENEKES
50	Fasteners	HILTI, FISCHER, BOSCH, WUNH
51	Kitchen Chimney	FABER / BOSCH / KAFF

FOR ELECTRICAL SUBSTATION EQUIPMENT

Sl. No.	Items	Approved Makes / Brands
1	ACB	SCHNEIDER (NW) / SIEMENS (3WL) / ABB (E-MAX)/ L&T (U POWER OMEGA) / LEGRAND (DMX3)
2	MCCB	SIEMENS-3VL, L&T- D-SINE, SCHNEIDER- NSX, ABB-T-MAX, LEGRAND - DPX3
3	Main LT Panel, APFC / Main Outdoor Feeder Pillar (TTTA Type)	ABB (ArTuK) / Schneider electric (BLOKSET)/ Siemens (SIVACON) /L&T (Ti) / LEGRAND (XL3) or their authorized licensee channel partner (in case of channel partner, the name shall be got approved from Engineer-in-charge). In all cases standard design inspection shall be done by licensor, who shall be fully responsible for performance of the panel.
4	Sub distribution boards	TRICOLITE, ADLEC, ADVANCE PANLES & SWITCHGEAR (P) LTD., STERLING GENERATOR, MARINE ELECTRICALS,
5	Capacitor	ABB/Schneider/L&T/EPCOS
6	Batteries	EXIDE / PANASONIC/ AMRON
7	Measuring Meters	SCHNEIDER (CONZERV) / C&S / NEPTUNE /L&T
8	Indicating Lamps and Push Buttons	SCHNEIDER / L&T/ / SIEMENS / C&S
9	Control Relays, Contactors, Starters	SCHNEIDER / L&T/ / SIEMENS / C&S
10	CT and PT	SCHNEIDER / GILBERTS & MAXWELL / EPCOS/AE/KAPPA
11	Energy Meters	SCHNEIDER (CONZERV) / C&S/ L&T/SIEMENS

12	Sandwich type Bus duct	SCHNEIDER /L&T/C&S/LEGRAND / ANANT POWERTECH
13	MCB, RCCB, RCBO, DB	SCHNEIDER / SIEMENS / L&T/ LEGRAND
14	Glands	COMET / HMI / RAYCHEM
15	Selector switches	SALZER / KAYCEE /L & T
16	Cable Trays	PROFAB / SLOTCO /MK / OBO
17	Cable	KEI, HAVELLS, POLYCAB, RR KABEL
18	Earthing	JMV/ JEF TECHNO SOLUTIONS PVT. LTD. /ERICO/OBO
19	TRANSFORMER (Oil Type)-	SCHNEIDER / CROMPTON GREAVES / ABB/ GE / BHEL
20	HT Panel/VCB	SCHNEIDER / SIEMENS / L&T / ABB

FOR UPS SYSTEM

Sl. No.	Items	Approved Makes / Brands
1	UPS	APC, EMERSON, SOCOMEC, NUMERIC
2	Batteries	EXIDE, AMRON, PANASONIC
3	INVERTER	LUMINOUS, MICROTEK, SU-KAM

SECTION 13

Schedule of Quantity

Prices are to be quoted in the price bid format given in the e-tender website online (www.tenderwizard.com/IITD) only. Blank copy (without price) of this schedule of price duly signed and stamped on each page has to be uploaded along with technical document.

e-Tender for Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus					
PRICE BID/Price Schedule					
NIT No:- IITD/eTender/ CMU-17012/12/2021/01-CMU					
			% above/below/at par		
Sl. No.	Description of Work	Estimated Amount	Choose any one out of three : above/below/at par	% In figures	% In words
1	Electrical renovation work in Room Nos. 205 and 206 of Fuel Minerals and Metallurgical Engineering (FMME) Department at IIT (ISM) Dhanbad Campus	525788.00			
	Total Quoted Amount in Figures (Rs.) :				
	Total Quoted Amount in Words (Rs.) :				
Note: (1) Evaluation shall be done considering the GST. Quoted percentage is inclusive of GST (2) In case of discrepancy between the quoted percentage in words and figures, the percentage rate quoted by the tender in words shall be taken as correct or whichever works out to be less.					