INSTITUTE WORKS DEPARTMENT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

E-TENDER DOCUMENT

For

"Electrical General maintenance, Renovation & Rewiring work in Zone-III, IIT Roorkee Campus."



Indian Institute of Technology Roorkee Roorkee-247667, Tel.no. 01332-284955

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INSTITUTE WORKS DEPARTMENT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

No. IWD/DI/GM/Z-3/93

Dated:20.06. 2024

NOTICE INVITING TENDER

On behalf of BOG, I.I.T. Roorkee, online Tenders (Percentage Rate) are invited in two Bid systems (Technical and Financial) from eligible bidders registered with CPWD, state PWD, MES or working contractors of IIT Roorkee having experience of working in Central / State Government, Public Sector Undertaking/Autonomous Organization of Central/State Government who fulfill the PQ criteria for the following work:

Completion Name of the **Estimated Cost** Period Work (Months) "Electrical General maintenance, **Rs. 229.10 Lacs** Renovation & Rewiring work in Zone-(including 12 Months GST@ 18% & **III, IIT Roorkee Campus."** Cess @1%)

- 1. Interested eligible Bidders may obtain further information from IIT Roorkee website: <u>www.iitr.ac.in</u> (<u>http://mm.iitr.ac.in/mmweb/tenders</u>) or from Central Public Procurement Portal (CPPP) <u>https://eprocure.gov.in/eprocure/app</u>.
- 2. Intending bidders are advised to visit IIT Roorkee website <u>www.iitr.ac.in (http://mm.iitr.ac.in/mmweb/tenders</u>) and Central Public Procurement Portal (CPPP) <u>https://eprocure.gov.in/eprocure/app</u> regularly till closing date of BID submission of tender for any corrigendum / addendum/ amendment.

Critical	Data	Shoot
Unital	Data	Sheet

Sr.	Name of Organization	Indian Institute of Technology Roorkee
No.		
1	Tender Type	Open
	(Open/Limited/EOI/Auction/Single)	
2	Tender Category (Services/Goods/Works)	Works
3	Type/Form of Contract (Work/Supply/ Auction/	Work Contract
	Service/ Buy/ Empanelment/ Sell)	
4	Product Category (Civil Works/Electrical	Electrical Works
	Works / Fleet Management / Computer	
	Systems)	
5	Date of Issue/Publishing Original Tender	20.06.2024 (15:00 Hrs)
6	Document Download / Sale Start Date	20.06.2024 (15:00 Hrs)
7	Pre-bid Meeting	NA
8	Seek Clarification Start Date	20.06.2024 (15:00 Hrs)
9	Seek Clarification End Date	27.06.2024 (15:00 Hrs)
10	Bid Submission Start Date	03.07.2024 (15:00 Hrs)
11	Bid Submission Closing Date	10.07.2024 (15:00 Hrs)
12	Bid Opening Date	11.07.2024 (15:00 Hrs)
13	Tender Fee	Rs.1000.00+18% GST (non-refundable). Payment of
		Tender Fee can be made by RTGS, NEFT in below
		mentioned account no. 1. Account Name- NON MHRD GOVERNMENT
		1. Account manie- non minkd GOVEKINMENT

		EUND HE BOODKEE
		FUND IIT ROORKEE 2. Address- IIT Roorkee, Haridwar.
		a. Account No 00000032685865515
		4. Account Description- Regular SB Chq-Entities.
		5. Branch- IIT Roorkee,
		6. CIF No- 86531323246
		7. IFS Code SBIN0001069,
		8. MICR Code 247002094
14	EMD (2%)	 Rs. 4,59,000.00/- Payment of EMD can be made byRTGS, NEFT in below mentioned account no. Thebidders shall be required to upload the scanned copiesof transaction of payment of tender EMD / Tender Feeincluding e-receipt (clearly indicating UTR No. &Tender Reference i.e. NIT No. must be entered in theremark at the time of online transaction of payment,failing which payment may not be considered) at the time of online bid submission on e-tendering website. Tender fee /EMD may be submitted online as perdetails given below. 1. Account Name- NON MHRD GOVERNMENTFUND IIT ROORKEE 2. Address- IIT Roorkee, Haridwar. a. Account No 00000032685865515 4. Account Description- Regular SB Chq-Entities. 5. Branch- IIT Roorkee, 6. CIF No- 86531323246 7. IFS Code SBIN0001069, 8. MICR Code 247002094
15	Performance Guarantee (5%)	5% of awarded value shall be submitted in the form of Bankers Cheque / DD / FDR / Bank Guarantee in the name of Institute Engineer, IIT Roorkee after issue of
		Letter of Acceptance (LOA).
16	Security Deposit (5%)	5% of awarded value shall be submitted in the form of Bankers Cheque / DD/FDR / Bank Guarantee in the name of Institute Engineer, IIT Roorkee after issue of Letter of Acceptance (LOA).
17	No. of Covers (1/2/3/4)	02 (Cover-1 for Technical+ Cover-2 for Financial)
18	Bid Validity Days (180/120/90/60/30)	90 days (from last date of opening of financial bid)
19	Documents to be uploaded on CPP Portal (http://eprocure.gov.in/eprocure/app)(related to eligibility criteria) on or before due date of submission of tender.	 Affidavit (on Rs.10 non judicial stamp with notarized) regarding establishment of proprietorship firm or partnership deed or letter of incorporation for private ltd & ltd firm. Written power of attorney for authorized signatory. If the bidder is not the owner or proprietorship firm. Self-certified copy of work orders along with work completion certificate as per eligibilitycriteria. Proof of online deposit of tender fee and EMD. As per the tender document Annexure-A, Annexure-B and Annexure-C. Solvency certificate, Turnover certificate from CA preferably with UDIN Number, GST registration certificate. Valid Electrical Contractor License Class-A.

20	Price Bid	To be uploaded only on CPP Portal
		(<u>http://eprocure.gov.in/eprocure/app</u>) in excel sheet.
21	Address for communication	Executive Engineer (E/M), Institute Works Department,
		James Thomson Building, IIT Roorkee, Roorkee-247667
		(India), Tel. No. 01332-284955 / 4858
22	Email Address	tntiwari.eem2019@iitr.ac.in, pradeepelectenggaad@iitr.ac.in

Note: -

- Bidders are advised to keep visiting the above-mentioned websites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.
- 2. In case any information furnished by the Bidder is found to be false / forged / incorrect at any stage, their bid shall be rejected and further action e.g. debarring from participating in future tenders, blacklisting etc. may be taken.
- 3. Clarification of Bids/ Shortfall Documents: IIT Roorkee may, at its discretion, ask the Bidder for clarifications / shortfall documents related to his bid. The request for clarification shall be given in writing. Depending on the reply of the Bidder, his bid shall be ignored or considered further.
- 4. Only 'Class-I local supplier' and 'Class-II local supplier', as defined in the Public Procurement (Preference to Make in India), Order 2017 shall be eligible to bid in the tender. For more details, please refer to: Order No.: P-45021/2/2017-PP (BE-II), DPIIT, Ministry of Commerce and Industry issued Dated: 16th Sept. 2020. A self- certificate must be provided in this regard that the item offered meets the local content requirement for 'Class-I local supplier' & 'Class-II local supplier'.
- 5. Before quoting the Bid, the Bidder may inspect the site to get the required information related to site condition and requirements.
- 6. IIT Roorkee reserves the right to reject any quotation wholly or partly without assigning any reason.
- 7. The decision of the institute in all matters relating to eligibility, acceptance, or rejection of the Bid will be final and binding on the applicants.
- 8. Deputed workers by the vendor shall wear safety helmets, safety shoes (reputed make and ISI marked) and a reflective safety jacket shall be provided by the bidder on the work site.

No additional cost will be paid for the same, so it's instructed that the bidder include the charges for PPE kits as per site requirement. Failing which, institute will provide the same with risk and cost to bidder and bidder may be penalized in any manner like debarring / blacklisting Penalty of Rs. 200 per violation will also be imposed by the EIC etc.

> Sd-Institute Engineer

INSTRUCTIONS FOR ONLINE BID SUBMISSION

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <u>https://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submit their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <u>https://eprocure.gov.in/eprocure/app</u>.

1.0 Registration

- **1.1** Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- **1.2** As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- **1.3** Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 1.4 Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc.) with their profile.
- **1.5** Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible for ensuring that theydo not lend their DSCs to others which may lead to misuse.
- **1.6** The bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of theDSC/eToken.

2.0 Searching for Tender Documents

- **2.1** There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- **2.2** 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. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- **2.3** The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

3.0 Preparation of Bids

- **3.1** Bidders should take into account any corrigendum published on the tender document before submitting their bids.
- **3.2** Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and 4 content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- **3.3** The bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF/XLS/RAR/DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- **3.4** To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
- **3.5** If any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, the rate of such item shall be treated as "0" (ZERO). However, if a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any

section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

4.0 Submission of Bids

- **4.1** The bidder should log into the site well in advance for bid submission so that he/she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- **4.2** The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- **4.3** Bidder shall submit tender fee as per critical data sheet.
- **4.4** A standard BOQ format has been provided with the tender document to be filled in by all the bidders. Bidders are requested to note that they should submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as the name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing thefilename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- **4.5** The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- **4.6** All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done.
- 4.7 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- **4.8** Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- **4.9** Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

5.0 Assistance to Bidders

- **5.1** Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority to the address provided in Critical Data Sheet for a tender or the relevant contact person indicated in the tender.
- **5.2** Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 0120-4001062 / 0120-4001002 / 0120-4001005 / 0120-6277787

6.0 General Instructions to the Bidders

- **6.1** The tenders will be received online through portal http://eprocure.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the eligibility criteria documents in .pdf format.
- **6.2** Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/etoken in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- **6.3** Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e- submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

INFORMATION AND INSTRUCTIONS TO BIDDERS

On behalf of BOG, I.I.T. Roorkee, online Tenders (Percentage Rate) are invited in two Bid systems (Technical and Financial) from eligible bidders registered with CPWD, state PWD, MES or working contractors of IIT Roorkee having experience of working in Central / State Government, Public Sector Undertaking/Autonomous Organization of Central/State Government for the work of **"Electrical General maintenance, Renovation & Rewiring work in Zone-III, IIT Roorkee Campus."**

- 1.1 The work is estimated to cost as mentioned in the NIT. The estimate, however, is given merely as a rough guide.
- 1.2 Intending bidder is eligible to submit the bid provided, if he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:

1.2.1 Criteria of eligibility for submission of bid documents:

- (a) Intending bidder should not be a joint venture (Self Certified copy of relevant documents clearly establishing the status of bidder to be uploaded in Cover-1).
- (b) Should have successfully completed works during last seven years ending last day of the month previous to the one in which applications are invited. The works completed up to previous day of last date of submission of tenders shall also be considered.

Three similar completed works costing not less than the amount equal to 40% of the estimated cost put to tender,

Two similar completed works costing not less than the amount equal to 60% of the estimated cost put to tender.

or

One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost. (Self-Certified photocopy of work order along with work completion certificate to be uploaded as proof of eligibility criteria in Cover-1)

The work completion certificate should have been issued by an officer not less than the rank of Executive Engineer / equivalent and must contain name of the work, date of start, date of actual completion and amount of work executed.

Explanation: The value of executed works shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for this tender.

Similar work means "Electrical General maintenance & Rewiring work".

- (c) Average annual financial turnover should be at least 50% of the estimated cost during last three consecutive financial years duly audited by a Chartered Accountant (Self Certified copy of certificate from CA to be uploaded in Cover-1). The year in which no turnover is shown would also be considered for working out the average.
- (d) Should have valid solvency certificate of the amount at least 40% of the estimated cost of the work issued by a scheduled bank which is not more than **one-year-old** from the last date of tender submission (including extension time). Certified copy of original solvency certificate to be uploaded in Cover-1.
- 2. Agreement shall be drawn up with the successful bidder on prescribed format.
- 3. The time allowed for carrying out the work will be as per the NIT from the date of start as defined in Award of Work or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in tender documents.
- 4. The site for the work is available / shall be made available for start of the work.
- 5. The Tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen / downloaded from IIT Roorkee website: <u>www.iitr.ac.in (http://mm.iitr.ac.in/mmweb/tenders</u>) or from Central Public Procurement Portal (CPPP) <u>https://eprocure.gov.in/eprocure/app</u>.
- 6. While submitting the bids, the bidder can revise the rate, but before last date and time of submission of bids as notified. In this case, the last submitted bid before the last date and time will only be considered.

- 7. The scanned copies of documents as per critical data sheet shall be uploaded under Cover-1 on the e-tendering website.
- 8. Online Financial Bids submitted by intending bidders shall be opened only to those bidders whose bid is found technically qualified.
- 9. The bid submitted shall become invalid and the cost of the bid & tender processing fee shall not be refunded if: (i) the bidder is found ineligible. (ii) The bidder does not provide all the documents (including PAN No., GST registrationetc.) as stipulated in the bid document.
- 10. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids 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 affect their Tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent upon any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Institute and local conditions and other factors having a bearing on the execution of the work. The cost of the site visit shall be borne by the bidder.
- 11. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
- 12. Canvassing, whether directly or indirectly, in connection with bidders is strictly prohibited and the Tenders submitted by the bidders who resort to canvassing will be liable to rejection.
- 13. The bidder shall not be permitted to tender for works in the IWD, IIT Roorkee, if his near relative is posted as an officer in any capacity between the grades of Dean Infrastructure and Junior Engineer (both inclusive). Any breach of this condition by the bidder would render him liable to be removed from the Tendering process.
- 14. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to act as a bidder within a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the bidder or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the bidder's service.
- 15. The notice inviting bid shall form part of the contract document. The successful bidder, on acceptance of his bid by the Accepting Authority, have to sign the contract consisting of "The Notice Inviting bid, all the documents including Special Conditions, General Specifications/ Particular Specifications and drawings, if any, forming part of the bid as submitted at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto within 15 days from the stipulated date of start of the work.
- 16. The bid for the works shall remain open for acceptance for a period of 90 days from the date of opening of financial bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the Indian Institute of Technology Roorkee, then Indian Institute of Technology Roorkee, without prejudice to any other right or remedy, be at liberty to forfeit of the said earnest money as aforesaid. Further, the bidder(s) shall not be allowed to participate in the re-bidding process of the work.

17. Composite Tender (if applicable)

- 17.1 The competent authority is calling this bid for the composite work. The Earnest money is fixed with respect to the combined estimated cost put to tender for the composite tender.
- 17.2 The eligible bidders have to quote rates for all items given in the schedule of quantity.
- 17.3 After acceptance of the bid by competent authority, **Institute Engineer**, **IWD**, **IIT Roorkee** shall issue letter of Acceptance (LoA) on behalf of the Institute. After issue of LoA, the bidder will have to enter into one agreement with **Institute Engineer**.
- 17.4 Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.
- 17.5 Security Deposit will be worked out separately for each component corresponding to the quoted/accepted cost of

the respective component of works. The Earnest Money will become part of the security deposit of the respective projects under the head Mega projects in ratio of the corresponding estimated value of these projects.

- 17.6 The bidder may associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the tender document and must submit detail of such agency(s) to Dean Infrastructure. The name of the agency(s) to be associated shall be approved by Dean Infrastructure. Before engaging such associate agencies bidder has to inform to Dean Infrastructure along with his past experience and all credential's and got the approval of the same from him.
- 17.7 In case the bidder intends to change any of the above agency/ agencies during the operation of the contract, he shall obtain prior approval of respective Dean Infrastructure. The new agency/ agencies shall also have to satisfy the laid down eligibility criteria. In case Dean Infrastructure is not satisfied with the performance of any agency, he can direct the bidder to change the agency, and this shall be binding on the bidder.
- 17.8 The main bidder has to enter into an agreement with bidder(s) associated by him for execution of minor component(s).Copy of such agreement shall be submitted to the Engineer-in-charge in case of change of associate bidder, the main bidder has to enter into agreement with the new bidder associated by him.
- 17.9 The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components. The final bill of the whole work shall be finalized by IWD, IIT Roorkee.
- 17.10 It will be obligatory on the part of the bidder to sign the tender documents for all components before the first payment is released.

18. Tender will be awarded on L-1 basis.

- **19.** In the case of Extra Item(s) being the schedule item(s) (Delhi Schedule of Rates item), these shall be paid as per the schedule rate (at the time of tender) plus/minus percentage above/below quoted contract amount. Payment of Extra Item(s) in case of non-schedule item (Non-DSR item) shall be made as per the prevailing market rate.
- 20. If any deviation is required as per site conditions the bidder will be bound to execute the work on same terms and conditions. Payment will be made as per actual measurement basis.

A: GENERAL INSTRUCTIONS

1. Scope of Tender.

- 1.1 Indian Institute of Technology Roorkee (referred to as Owner in these documents) invites Tender as defined in these documents and referred to as "the works" detailed in the table given in the Notice Inviting Tenders (NIT).
- 1.2 The successful Bidder shall complete the works within the completion date specified in the Notice Inviting Tenders (NIT).

2. Non-Association / Relation

2.1 All bidders shall provide in the bid tender and Qualification Information, a statement that the Bidder is not associated, nor has been associated in the past, directly or indirectly, with the Indian Institute of Technology Roorkee or any other entity that has prepared the design, specifications, and other documents for the Project.

3. Qualification of the Bidder

- 3.1 All Bidders shall provide tender qualification information.
- 3.2 All Bidders shall include the following information by submitting relevant documents and certificate with their tenders: The Bidder must be registered with the GST Department and should submit the registration certificate of GST, ESI, EPF, Labour License (if applicable) etc.

4. Cost of tendering

- 4.1 The Bidder shall bear all costs associated with the preparation and submission of his tender, and the Owner will in no case be responsible and liable for those costs.
- 4.2 The Bidder, at its own responsibility and risk is encouraged to visit and examine the Site of Work and its surroundings and obtain all information that may be necessary for preparing the tender. The costs of visiting the Site shall be at the Bidder's own expense.

<u>B: DOCUMENTS INVITING TENDERS</u>

5. Invitation: Tenders are hereby invited on behalf of Indian Institute of Technology Roorkee.

6. Contents of documents as mentioned in the relevant clauses mentioned:

The Bidder shall be deemed to have examined all instructions, forms, terms, and specifications in the Documents. Failure to furnish the information required in the Tender Document or submission of a Bid not substantially responsive to the Tender Documents in every respect will be at the Bidder's risk and may result in the rejection of the bid.

The several documents forming the contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.

In case of any discrepancy between the Schedule of Quantities, the specifications and/ or the drawings, given in the tender document the following order of preference shall be observed:

- 1. Description of Schedule of Quantities.
- 2. Specification and Special condition, if any.
- 3. Drawings.
- 4. C. P. W. D. specifications/ IWD, IIT ROORKEE specification.
- 5. Latest edition Indian Standard Specifications of B. I. S.

7. Amendment of Tendering Documents

- 7.1 Before the deadline for submission of bids, the Indian Institute of Technology Roorkee may modify the Tender documents by issuing addenda/corrigendum.
- 7.2 Any addendum thus issued shall be part of the Tendering documents and shall be uploaded on e-Tendering website https://eprocure.gov.in/eprocure/app and Institute website http://mm.iitr.ac.in/mmweb/tenders.
- 7.3 To give prospective Bidders reasonable time in which to take an addendum / corrigendum into account in preparing their bid, the IIT Roorkee may extend if necessary the deadline for submission of tenders.

C: PREPARATION OF DOCUMENT

- 8. Earnest Money Deposit (EMD): EMD as per critical data sheet must be submitted. Bids not accompanying EMD will be summarily rejected. The EMD of the unsuccessful Bidders will be discharged / returned within Thirty days. (30) days from the date of opening of the financial bids. The EMD of the successful Bidder may be converted as Security deposit. The EMD may be forfeited and further the bidder shall not be allowed to participate in the rebidding process of the work, if the Bidder withdraws his bid during bid validity period or in case successful Bidder fails to sign the contract / fail to deposit security amount and performance guarantee.
- **9. Period of validity of bid:** The bids shall remain valid for a period of 90 days after the date of financial bid / price bid opening. A bid valid for a shorter period shall be rejected by the Indian Institute of Technology Roorkee as non-responsive.
- **10. Language of Bid:** The document shall be written in English/Hindi language. The total amount should be written in the same language.
- **11. Document comprising the E-Tender:** No page of this tenders document shall be removed, and the set must be submitted as it is. Each page of the tenders document form is to be signed by the Bidder and must bear the Seal of the Company/Firm.

The tender submitted by the Bidder shall comprise as mentioned above in the relevant sections.

12. Tender Prices

- 12.1 The contract shall be for the whole works as described in priced Schedule of Quantities submitted by the Bidder.
- 12.2 The tender submitted on behalf of firm shall be signed by a person who has the proper legal authority on behalf of the firm to enter into the contract; otherwise, the bid is liable to be rejected. Each page of the tender document and each drawing accompanying is required to be signed by the authorized person submitting the bid, with the company seal as the token of their having examined and acquainted themselves with the General conditions of contract, drawings, specifications, special conditions of contract etc. The forms of tender are to be filled in completely. Any bid with any of the documents not signed is liable to be rejected.
- 12.3 The notation R.O. written against items of BOQ means 'rate only" and the bidder is to quote only unit rate in such cases.
- 12.4 The Bidder shall fill in the percentage rate/in rates for items of the Works described in the Schedule of Quantities along with total bidding price. In case if the rates are not filled for any of the Items of Schedule of Quantities, in such cases the tender shall be summarily rejected. Failure to comply with either of these conditions will make the bid liable for rejection.
- 12.5 **Taxes:** All duties, taxes, and other levies payable by the Bidder under the contract, or for any other cause, shall be included in the rates, prices and total Bidding Price submitted by the Bidder. Bidders must include in their rates, the cost of transportation of materials to site, GST, labour cess as per Building & other construction workers cess act, excise duty, octroi, and any other tax and duty levied by the Central / State Government. None of the above taxes & levies will be entertained by the Owner and no tax exemption forms will be issued by the Owner.

Estimate has been prepared on current applicable GST rate. However actual payment will be done on the basis of prevailing GST rates at the time of execution of work and its payment.

- 12.6 Labor Cess or BOCWW Cess: Labour cess @1% shall be deducted from each bill.
- 12.7 The work shall be carried out by the Bidder in a manner complying in all respect with the requirement of relevant bye-laws/orders of the Local/Municipal bodies and paying all fees and charges which may be leviable at his own cost. The completion/ occupancy certificates including clearance from the fire committee, or any other statutory obligation shall be arranged by the bidder. Any official fees shall be paid by the Owner. Allother cost of liasoning shall be borne by the bidder.
- 12.8 Bidder should also take a Group Insurance Policy for his Workmen, Supervisors and Engineers working on site for an adequate insurance cover. Indian Institute of Technology Roorkee shall not be responsible for any accident or happening of any untoward/unforeseen event involving workmen, labour, supervisor or engineer or any person directly or indirectly associated with the execution of work. The insurance policy to

be obtained by the successful Bidder must be comprehensive and shall cover all associated risks (known and unknown).

- 12.9 The rates quoted in the tender shall include cost of electrical power supply, water supply, cost of all materials, labour, telephone, rent and call charges, water and meter rent charges, temporary electric wiring / lighting for execution of work at site, hire for any tools and plants, shed for materials, marking out and clearing of site, transportation complete in all respects. The rates quoted in the tender shall be treated as rate for finally completing the item of work.
- 12.10 The quantities furnished in the schedule of quantities are only probable quantities and are liable to alterations, by omission, deductions or additions to any extent at the discretion of Indian Institute of Technology Roorkee. Payments will be regulated on the actual quantities of work done at accepted rates.
- 12.11 Errors in the Schedule of Quantities shall be dealt with in the following manner:
 - i. In the event of a discrepancy between the rates quoted in words and the rates in figures, rate quoted in words shall be *considered* to be correct.
 - ii. In the event of an error occurring on account of arithmetical calculations the same shall be corrected according to rates written in words and quantities in B.O.Q.
- iii. All the errors in totaling in the amount column and in carrying forward the totals shall be corrected. The tender total shall be accordingly amended. If the bidder doesn't accept the corrected amount, then his bid will be rejected.
- 12.12 The calculations made by the bidder should be based upon quantities of the items of work which are furnished in the Schedule of Quantities, but it must be clearly understood that the contract is not a lump sum contract. The Owners do not in any way assure, represent or guarantee that the said probable quantities are correct or that the work would correspond thereto. The items of work irrespective of the quantities which may vary shall be carried out at the same accepted bidding etender rates and no escalation in the rates will be entertained whatsoever. Any item of work may be omitted from the schedule of quantities and may be awarded to another agency at any time / stage of the work.
- 12.13 The bidders must obtain for themselves on their own responsibility and their own expenses all the information which may be necessary, including risks, contingencies and other circumstances to enable them in making a proper bid and for entering into a contract, and must examine the drawings, specifications and conditions and inspect the site of the work, nature of the work, availability of power, water, shelter for workmen and all the matters pertaining thereto before submitting the bid. They can also get any clarifications required from the Owner, before tendering, by contacting them at their office during working hours.

13. Format and signing of Tender document.

- 13.1 The bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder. All pages of the tender where entries or amendments have been made shall be initialed by the person or persons signing the tender.
- 13.2 The tender shall contain no alterations or additions, except those to comply with instructions issued by the Owner, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the bid. ANY CONDITIONAL BID WILL BE SUMMARILY REJECTED.

D: MODE OF SUBMISSION OF BID DOCUMENT

14. Sealing and marking of bids.

- 14.1 The entire document to be put in cover-1 and 2 should be scanned and uploaded under cover-1 and 2 respectively on the e-tendering website. No hard copy of any document (financial or technical) should be submitted. In case any hardcopy is submitted then the same will not accepted by the department.
- 15. Deadline for submission of bid: As per Critical Data Sheet.

E: TENDER OPENING AND EVALUATION

- **16. Tender opening:** The tender will be opened on the date and the place specified in the critical data sheet. In case of any unavoidable circumstances or unforeseen event on the specified date and time of tender opening, the bids will be opened at the appointed time and location on the next working day.
- **17. Clarification of Tenders:** To assist in the examination, evaluation and comparison of bids, the Owner may, at his discretion, ask any Bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by fax, but no change in the price or substance of the tendering shall be sought, offered, or permitted.

18. Examination of Bids and Determination of Responsiveness:

- 18.1 Prior to the detailed evaluation of bids, the Owner will determine whether each bid
 - a) Meets the eligibility criteria defined
 - b) Has been properly signed and meets the requirements mentioned
 - c) is accompanied by the required securities and;
 - d) is responsive to the requirements of the tendering documents.
- 18.2 A responsive bid is one which conforms to all the terms, conditions and specifications of the tendering documents, without material deviation or reservation. A material deviation or reservation is one
 - a) Which affects in any substantial way the scope, quality, or performance of the works;
 - b) which limits in any substantial way, inconsistent with the tender documents, the Indian Institute of Technology Roorkee rights or the Bidders' obligations under the contract; or
 - c) Whose rectification would affect unfairly the competitive position of other Bidders presenting responsive bids.
- 18.3 If a bid is not responsive, it will be rejected by the Indian Institute of Technology Roorkee, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

19. Evaluation and Comparison of Bids:

- 19.1 The Owner along will evaluate and compare only the bids determined to be substantially responsive.
- 19.2 In evaluating the bids, the Owner will determine for each bid the evaluated bids Price by adjusting the bid. Price as follows:
 - a) Making any correction for errors; or
 - b) Making an appropriate adjustment for any other acceptable variations, deviations; and
 - c) Making appropriate adjustments to reflect discounts offered.
- 20. The Owner reserves the right to accept or reject any variation, deviation, or alternative offer and other factors which are more than the requirement of the tender.

F: AWARD OF TENDER

21. Award criteria:

- 21.1 The acceptance of bid will rest with the Owner, which does not bind itself to accept the lowest bid and reserves to itself the authority to reject completely / partially, any or all of the bid/s received without the assignment of a reason.
- 21.2 The owner reserves to itself the right to accept the whole or any part of the Bid and the Bidder shall be bound to perform the same at the rate quoted.
- 21.3 The Owner reserves to itself the right of omission of any item of work from the awarded tender at any time / stage during the execution of work and awards the same to another agency / bidder.
- **22.** Notification of award: The successful Bidder will be issued a Letter of Acceptance (LoA) by the Owner. The issuance of LoA shall not constitute an award of work.
- **23. Performance Guarantee:** Within ten (10) days of LoA the successful Bidder shall furnish the performance guarantee @ 5% of value of work in the form of DD/FDR/ Bankers cheque /Bank Guarantee from Scheduled bank provided in the tender document. The Performance Guarantee must be valid two months beyond the work completion period (Part-A). It may be further extended. The Performance guarantee shall be returned / refunded to the bidder on completion of the work (Part-A) and recording of the completion certificate. In case the bidder fails to deposit it the said performance guarantee within the period as indicated, the Earnest Money deposited by the bidder shall be forfeited automatically without any notice to the bidder.

24. Signing of contract form: On the acceptance of LoA and Performance Bank Guarantee of the successful Bidder whose tender has been accepted in writing, the Indian Institute of Technology Roorkee will sign an agreement. Article of agreement shall be as per IIT Roorkee.

G: DURING EXECUTION

25. During Execution: The Bidder shall carry out all the works strictly in accordance with the drawing, details and instructions of the Owner. If in the opinion of the Owner, changes have to be made in the design, and they desire the bidder to carry out the same, the Bidder shall be bound to comply. The Owner decisions in such cases shall be final.

The Bidder is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the schedule of quantities and rates. Schedule of instructions in respect of such additional items and their quantities with the prior consent from the Owner. Rates for such items of work will be approved by the Owner on the basis of Analysis of Rates which will be derived from actual prevailing market rates of similar item along with 15% as bidder's profit & overhead (or service charge as quoted by the bidder). The rates approved by the Owner in such cases will be final.

The Bidder shall get the quality of work done inspected for material and workmanship at different stages of execution as per instructions given by the Owner or their representative from time to time. Any item of work done which is found not conforming to the Contract shall be rejected by the Owner. The decision of the Owner in such cases shall be final.

The Owner may instruct at any stage of execution for testing of samples of any material taken at random. The Owner will decide the testing laboratory / agency and the cost of testing including the expenses for sending the samples to the laboratory / agency and receipt of test reports shall be borne by the Bidder. The material shall be rejected if the test reports are not within the permissible limits.

The Bidder shall have to present the invoice for purchased material from the manufacturer or from the dealer along with the certificate from the manufacturer. In case material is found to be of substandard quality, the same shall be rejected by the Owner. The decision of the Owner in such cases shall be final.

The Bidder shall not be entitled to any compensation for the Loss suffered by him on account of delays in commencing or executing the work whatever the cause of delay may be, including delays arising out of modifications to the work entrusted to him or in any subcontracts connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such other works or in procuring Government controlled or other building materials for any other reasons whatsoever. The Owner shall not be liable for any sum besides the e-tender amount, subject to such variations as are provided for herein and as instructed by the Owner. However, the necessary time extension will be given if the delays are not attributed to the Bidder.

OUALIFYING INFORMATION

1.	Name of the bidder	
2.	Legal Status of the bidder	
3.	Place of registration and registration of the	
	bidder	
4.	Year of establishment of the firm.	
5.	Permanent Address	
6.	Email id	
7.	Contact Numbers	
8.	Principal place of the registration	
9.	PAN No.	
10.	GST No.	
11.	EPF	
12.	ESI	
13.	Tender fee details	
14.	Solvency certificate details	

Please furnish the following information along with documentary evidence only in this format (as eligibility criteria)

16. The average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should not be less than 50% of the estimated cost. CA certificate is enclosed as documentary proof. Copies of balance sheets duly certified by *CA preferably with UDIN Number* to be submitted.

Sl. No.	Financial Year	Amount (in Lakhs)
1	2020-2021	
2	2021-2022	
3	2022-2023	

17. PROFORMA FOR LIST OF WORKS EXECUTED BY THE BIDDER DURING THE LAST 5 YEARS AND ABOVE

Sl. No	Name of work/ project with address	Name & postal address of the owner & contact person	Contract Value	Date of Start	Date of Completion	Actual Date of Completion

Note: Bidder may furnish the above information in separate sheet if the space is not sufficient.

18. PROFORMA FOR LIST OF WORKS IN HAND

Sl. No	Name of work/ project with address	Name & postal address of the owner & contact person	Published Value	Date of Start	Stipulated date of completion	Present Progress

Note: Bidder may furnish the above information in separate sheet if the space is not sufficient

19. DETAILS OF KEY PERSONNEL

Sl. No	Name & Designation	Qualification	Experience	Nature of Works Handled	Date from which employed in your organization

Note: Bidder may furnish the above information in separate sheet if the space is not sufficient.

20. List of equipments, tools and tackles (in applicable).

GENERAL CONDITIONS OF CONTRACT(GCC)

A: GENERAL

1.0 Definitions:

1.1 In this contract, the following terms shall be interpreted as indicated:

- a. "The Contract" means the agreement entered into between the Owner and the Bidder, as recorded in the contract form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein.
- b. "The Contract Value" means the amount payable to the Bidder under the contract for the full and proper performance of its contractual obligations.
- c. "Contract Data" means any information provided in the tender document and agreed to by the Bidder.
- d. "The Work" means all labour, materials, tools and plant, equipment including government taxes and transport that may be required in preparation of and for and in the full and entire execution and completion of "the Work".
- e. "Services" means services ancillary to the execution of the work such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Bidder covered under the contract.
- f. "GCC" mean the General Conditions of Contract contained in this section.
- g. "SCC" means the Special Conditions of Contract.
- h. "The Owner" means the Indian Institute of Technology Roorkee or its representative.
- i. "The Owner" means the Owner/Project Management Consultant appointed by the Owner for preparing all the drawings, details and specifications of items required for the execution of the work and superviseand monitor the execution at site along with checking and verifying Bidder's bill. The Bidder shall offer the Engineer or any representative of Owner every facility and assistance for examining the works and materials. The Engineer or any representative of the Owner shall have power to give notice to the Bidder or to his staff, of non-approval of any work or materials and such work shall be suspended or theuse of such materials shall be discontinued until the decision of the Owner. Such examinations shall notin any way exonerate the bidder from the obligations to remedy any defects which may be found to exist at any stage of the work or after the same is completed.
- j. "The Bidder" means the individual or the firm executing the work.
- k. "The Project Site" where applicable, means the place or places named in SCC.
- l. "Day" means calendar day.
- m. "Engineer-in-charge (EIC)" means Assistant Executive Engineer.

2.0 Interpretation and Application

- **2.1** These general conditions apply to the extent that provisions in other parts of the contract do not supersede them.
- **2.2** In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Owner will provide instructions clarifying queries about the Conditions of Contract.
- **2.3** If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended completion date are for the whole of the Works.

3.0 Standards

3.1 The works executed by the Bidder should be carried out in most professional manner, both as regards material and otherwise, in every respect, in strict accordance with the Technical Specifications. All materials and workmanship shall so far as procurable be of the respective kinds described in the priced schedule of quantities and/ or specifications and in accordance with the Owner' instructions, and the Bidder shall upon the request of the Owner, furnish them with all invoices, accounts; receipts and other vouchers to prove that the material.

procured complies therewith. When no applicable standard is mentioned, the work shall be carried out as per the directions of the Owner. The Bidder shall at his own cost arrange for and/or carry out any test of materials which the Owner may require. In case of discrepancies in tender wording as regards the specifications of materials, workmanship etc., written instructions will supersede the tender wording unless otherwise mentioned.

- **3.2** The Owner in their absolute discretion from time to time shall issue further drawings and/ or written instructions, details, directions and explanations which are hereafter collectively referred to as "the Owner's instructions" in regard to: -
- a. The variation or modification of the design quality or quantity of works or the addition or omission or submission on any work.
- b. Any discrepancy in the drawings or between the schedule of quantities and / or drawings and /or specifications/ dimensions etc.
- c. The removal and / or re-execution of any works executed by the Bidder.
- d. The removal from the site of any materials brought thereon by the Bidder and the substitution of any other materials therefore / or rejection of the material brought on site.

4.0 Use of Contract Documents and Information

- **4.1** The Bidder shall not, without the Owners' prior written consent, disclose the contract or any provision thereof, or any specifications, plan, drawing, pattern, sample, or information furnished by or on behalf of the Owner in connection therewith, to any person other than a person employed by the Bidder in performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- **4.2** The Bidder shall not, without the Owner's prior written consent, make use of any document or information enumerated in Para 4.1 except for the purposes of performing the contract.
- **4.3** All documents included but not limited to the contract agreement shall remain the property of the Owner and shallbe returned (in all copies) to the Owner on completion of the Bidder's performance under the contract, if so required by the Owner.
- **5.0 Owner's Decisions:** Except where otherwise specifically stated, the Owner will decide contractual matters between the Owner and the Bidder, in the role of representing the Owner.
- **6.0 Performance Guarantee:** The proceeds of the performance guarantee shall be payable to the Owner as compensation for any loss or dues resulting from the Bidder's failure to complete its obligations under the contract.

7.0 Program and Reporting

- **7.1** The bidder shall furnish to the Indian Institute of Technology Roorkee a bar chart laying down weekly financial and physical targets to complete the project within stipulated time for approval within fifteen days from the date of receipt of notification of award. A weekly progress report shall be furnished to the owner showing the progress.
- 7.2 The bidder must submit every week the following information to the Owner in writing:
- i. Number of men employed trade wise.
- ii. Progress achieved.
- iii. Expected dates for completion of work;
- iv. Any actual or potential delay in completion schedule.

8.0 Assignment and Sub-contracting

- **8.1** The whole of the works included in the Contract shall be executed by the bidder and the bidder shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein without the written consent of the Owner.
- **8.2** No sub-contracting shall relieve the Bidder from the full and entire responsibility of the Contract or from the active superintendence of the work during their progress.

9.0 Bidder to provide everything necessary for proper execution of work

- **9.1** The Bidder shall provide everything necessary for the proper execution of the works according to the intent and meaning of the drawings, priced schedule of quantities and specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from. If the Bidder finds any discrepancy therein, he shall immediately and in writing refer the same to the Owner whose decision shall be final and binding. Further, if any sample(s) of material(s), fittings, fixtures or finished item(s), to be used in the construction work, has/have been called for from the bidder, no work related to it/these shall be executed unless the same has/ have been approved by the Owner failing which no payment shall be made to the bidder on this account. Any sample, duly approved by the Owner shall become part of the supply to be used in "the works".
- 9.2 IIT Roorkee will provide water and power supply at site free of cost for the entire work.
- **9.3** The Bidder shall supply fix and maintain at his cost, during the execution of any works, all the necessary power supply, water supply, centering, scaffolding, watching and lighting by night as well as by day, required not only for the proper execution but also for protection of the public and the safety of any adjacent roads, streets, pavements, walls houses, building and other erections, matters or things. The Bidder shall take down and remove any or all such centering, scaffolding, staging, planking, timbering, strutting, shoring pumping, fencing, hoarding, watching, and lighting by night as well as by day, required not only for the proper execution but also for protection of the public and the safety of any adjacent roads, streets, pavements, walls houses, building and other erections matters or things. The bidder shall take down and remove any or all such centering strutting, strutting, shoring execution but also for protection of the public and the safety of any adjacent roads, streets, pavements, walls houses, building and other erections matters or things. The bidder shall take down and remove any or all such centering, scaffolding, staging, planking, timbering, strutting, shoring etc. as occasion shall require or when ordered so to do so and shall fully reinstate and make good all matters and things disturbed during the execution of the works, to the satisfaction of the Owner.
- **9.4** Throughout the execution of the work, the Bidder or his representative duly authorized and fully responsible and technically conversant with the work under this agreement, acting on his behalf shall be available at the site for supervising the work. The Bidder shall make adequate arrangements for watchmen to guard the materials brought by them to the site and shall ensure the safety, breakage and any theft of materials fixed or unfixed by him. Any material, T & P brought to the site for bonafide use of the Project shall not be removed/ shifted from the site without the prior written permission of the Engineer/Owner.
- **9.5** The bidder must provide at his cost leveling pipe, steel/ metallic tapes etc. required by the supervising staff of the Owner's/Owner' representative during execution of the work.
- **9.6** Whenever required by the Owner, the Bidder shall provide electrical drawings / details before execution of work and get them approved by the Owner.
- **9.7** Wherever the specification of any item indicates the usage of approved equivalent of any material, the Bidder shall get the sample of the equivalent material approved from the Owner before execution. The approval of the equivalent material is entirely at the discretion of the Owner.
- **10.0 Infrastructure:** For storage of materials, the bidder must provide at his own cost sufficient fenced and covered appropriate area on site for storage of the above materials with lock and key arrangement. For arranging meetings, a suitable sized table and chairs shall be provided by Bidder. Temporary space shall be provided to the Bidder for construction of stores for storage of materials /site office/ labour hutments for the project period.
- **11.0 Site Establishment**: The bidder shall provide all stores, workmen and materials. All materials likely to deteriorate in the open shall be stored under suitable cover. The security of the bidder's equipment and materials is his own responsibility. The Owner accepts no liability for loss or damage to the bidder's plant tools or materials. The materials issued to the bidder by the Owner will remain under the custody of bidder as a trustee. However, title on the same will remain with the Owner. The bidder will be responsible for loss or damage to such materials and shall

preserve them in good working conditions as required for the contract and good construction practices till such time that they are incorporated in the works and erected, aligned and fully installed in position and handed over to the Owner. In case the Owner feels that arrangements made by the bidder are not adequate he shall advice the bidder and the bidder shall promptly take corrective action. In case the bidder fails to take corrective action, the Owner shall take such corrective action and recover the cost thereof from the bidder's bills. Accounts of such material on completion of work shall be rendered and surplus material returned to the Owner as per instructions of Owner. The bidder shall clear away periodically or as instructed by the Owner any rubbish, scrap materials, etc. and dump the same in the authorized dump sites notified by local authority/area indicated by the Owner. All construction materials shall be neatly stacked in an orderly manner as directed by the Owner and care shall be taken to allow proper access to workmen and easy movement of men, vehicles, cranes and materials. The bidder shall maintain all the drawings carefully mounted on the board of appropriate size and well protected from the ravages of weather, termites and other insects. The bidder shall not permit the entry to the site of any person not directly connected/concerned with the work without first having obtained the written permission of Owner. The bidder shall submit a list of plants, equipments, tools, tackles, etc. which he will use, to perform the work. These tools, etc. shall not be removed from the site till the completion of job. A gate pass must be obtained from the Indian Institute of Technology Roorkee, chief proctor office, in order to remove from site any plant equipment, tools and materials. All items such as instructions and other pertinent data regarding erection/commissioning and maintenance should be typed and classified for transmittal in a manner approved by the Owner. For all employees of Owner, the bidder shall conform for no misconduct from any of his workforce; failure of this will be sufficient cause for removal of such person from the site.

12.0 Messing & Accommodation: The bidder will make his own arrangements for messing and accommodation. No accommodation and messing shall be provided by the Owner.

13.0 Procurement, Consumption and Storage of Materials

- **13.1** The bidder shall, at his own expenses, provide all materials including cement & steel required for the works. Adequate stocks of all materials required for the work are to be maintained at site. No material (unless provided elsewhere in this document) shall be supplied by the Owner.
- **13.2** All materials to be provided by the bidder shall be in conformity with the detailed specifications laid down in the contract and the bidder have to prove that the materials conform to the laid down specifications, if requested by the Indian Institute of Technology Roorkee.
- **13.3** All materials required for execution of work must be approved by the site representative of the Owner before they are actually put to use. All facilities for prior inspection of materials and subsequent inspection of work by the Site Engineer must be made available.
- **13.4** The bidder shall, at his own expenses and without delay, supply to the Owner samples of materials proposed to be used in the work. The Owner shall within seven days of supply of samples, or within such further period as Owner may require and intimate the bidder in writing, whether samples are approved by Owner, or not. If samples are not approved, the bidder shall forthwith arrange to supply, for their approval, fresh samples complying with the specification laid down in the contract.
- **13.5** The Owner shall have full powers to require removal of any or all the materials brought to site by the bidder which are not in accordance with the contract specifications or do not conform in character or quality to the samples approved by the Owner. In case of default on the part of the bidder in removing rejected materials, the Owner shall be at liberty to have them removed by other means. The Owner shall have full powers to direct other proper materials to be substituted for rejected materials and in the event of the bidder refusing to comply. The owner may cause the same to be supplied by other means. All risks and costs which may attend upon such removal and/or substitution shall be borne by the bidder.
- **13.6** Bidder shall be responsible for procurement of all materials/ equipments etc. No delay due to the non-availability of any material equipment will be entertained by Owner.

14.0 Method of storing the materials

- **14.1** The bidder shall at his own cost, provide for all necessary storage on the site in specified areas for all materials such as steel, cement and such other materials which are likely to deteriorate by the action of sun, wind, rain, dampness or other natural causes due to exposure in the compounds or in stores in such a manner that all materials, tool etc. shall be duly protected form damage by weather or any other cause.
- 14.2 Materials required for the works, by the bidder be stored by the bidder only at places approved by the Owner. Storage and safe custody of materials shall be the responsibility of the bidder. All the materials including bidder's Tools & Plants brought by the bidder to the site shall become and remain the property of the Owner and shall not be removed off the site without prior written approval of the Owner/Owner. But whenever the works are finally completed and advances, if any, in respect of such materials are fully recovered, the bidder shall at own expenses forthwith remove from the site all surplus materials supplied by him and upon such removal, the same shall revert in and become the property of the bidder.
- **15.0 Shuttering and Scaffolding Materials:** It shall be desirable to have adequate amount of shuttering and scaffolding materials to complete the work speedily and Owner decision so as to the quantum of these desirable/ resources of the site shall be final and binding.
- **16.0 Completion of Work:** Before finally leaving site, all the Bidders stores, plants, tools and rubbish shall be removed, and the site left clean and tidy. The space allocated by the Owner shall be vacated and handed over to the Owner.
- 17.0 Water and Electricity for Construction work: Water & Electricity as per relevant section's mentioned above

18.0 Employment of Labour

- **18.1** The bidder shall comply with the requirement of statutory provisions and shall be solely responsible for fulfillment of all legal obligations under Contract Labour (R&A) Act, Inter State Migrant Workmen (Registration of Employment and condition of Service Act, Payment of Wages Act., Minimum Wages Act, Workmen's Compensation Act, Factories Act, Employee's Provident Fund & Miscellaneous Provisions Act, Payment of Bonus Act, Payment of Gratuity Act, Industrial Disputes Act and all other Industrial/Labour enactments and Rules made there under as applicable from time to time. In case Owner incurs any liability towards payment of any dues, compensation, cost of any other liability of any kind whatsoever, due to non-fulfillment of statutory provisions under any industrial/labour laws by the bidder, the same shall be made good by the bidder and Owner shall have full right to recover and claim the same against the bidder from his outstanding bills or otherwise. No labour to stay at site.
- **18.2** The bidder will be expected to employ on the work only his regular skilled employees with experience of this particular work. The permission of the Owner must be obtained before tradesman are recruited locally for the work. This rule does not apply to unskilled labour. No female labour shall be employed in dark hours/ i.e. hours prohibited under the applicable law. No person below the age of eighteen years shall be employed at any point of time. The bidder shall pay, to each person, the wages as per minimum Wages Act of the State Government.
- **18.3** All traveling expenses including provision of all necessary transport to and from site, lodging allowances and other payments to the bidder's employees are his own responsibility. The hours of work on the site shall be decided by the Owner and bidder shall adhere to the same. All bidders employees shall wear safety helmet and such identifications marks as may be provided by bidder on work site and duly approved by Owner. All notices displayed on the site and any instructions issued by the Owner shall be strictly adhered to by the Bidder's and/or his sub-bidders employees. The bidder shall be required to maintain employment records as covered in relevant Acts and produce documentary evidence to the effect that he has discharged his obligations under the Employees Provident Fund Act 1952, and ESI Act, 1948 Group Insurance and other Acts for the workmen working at site.
- **18.4** The bidder shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Dean Infrastructure/Executive Engineer may in his discretion, without prejudice to any other right or remedy

available in law, cancel the contract. The bidder shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

- **19.0 Working and Safety Regulations:** The bidder shall observe all statutory safety and legal requirements regulations issued by Central and State Governments applicable to the work as well as any local regulations applicable to the site issued by the Owner or any other authority.
- **20.0** Particular attention is drawn to the following: In case of accident, the Owner shall be informed in writing forthwith and First-Aid, Hospitalization shall be provided by the Bidder. The bidder shall strictly follow regulations laid down by Govt. and State authorities in this regard and all cases are to be defended by the bidder. The Owner shall not refund any insurance claims. Bidder shall fence his plant, platforms, excavations etc. Compliance with all electricity regulations. Compliance with statutory requirements for inspection and test of all lifting appliances and auxiliary lifting gear. Staircase, doors or gangways shall not be obstructed in any way that will interfere with means of access of escape. Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosive, the bidder shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulation laid down in Petroleum Act 1934. Explosive Act 1948 and Petroleum and Carbide of Calcium Manual Published by the Chief Inspector of Explosive of India. All such storage shall have prior approvals of the Owner. In case any approval or clearance from Chief Inspector of Explosive or any statutory authorities is required, the bidder shall be responsible for obtaining the same.

The bidder shall have his own Fire Fighting Extinguishers and Equipment. The bidder shall be responsible for the provision of all safety notices safety equipments including the safety gadgets for his workmen required by both the relevant legislation and such as the Owner may deem necessary. While working at heights, safety belts and safety helmets shall necessarily be used.

- **21.0 Owner's and Bidder's Risks:** The Owner carries the risks, which this Contract states are The Owner risks, and the Bidder carries the risk, which this Contract states are The Bidder's risks.
 - **21.1** Owner's Risks: The Owner is responsible for the accepted risks which are:
 - a. In so far as they directly affect the execution of the Works. These include war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection of military or usurped power, civil war, riot commotion or disorder (unless restricted to the Bidder's Employees), and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or
 - b. A cause due solely to the design of the Works, other than the Bidder's design.
 - **21.2** Bidder's Risks: All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the accepted risks of the owner.
 - 21.3 The Bidder shall be responsible for all injury to persons, animals or things, and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of himself or of any sub-bidder or of any of his or sub-bidder's employees whether such injury or damage arises from carelessness accident or any other causes whatsoever in any way connected with the carrying out to the Contract. This clause shall be held to include interalia any damage to buildings, whether immediately adjacent or otherwise and any damage to roads, footpaths, or ways as well as all damage caused to the buildings and the work forming the subject to this Contract by frost, rain or other inclemency of the weather. The Bidder shall indemnify the Owner and hold him harmless in respect of all and any expenses arising from any such injury or damage under any acts of Government or otherwise and also in respect of an award of compensation or damages consequent upon such claim. The bidder shall make good all damages of every sort mentioned in the Clause, as to deliver up the whole of the Contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

22.0 Insurance

- **22.1** The Bidder shall provide, in the joint names of the Owner and the Bidder, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contracted Data for the following events which are due to the Bidder's risks and shall be covered under respective policies as under:
 - a. Workmen Compensation Policy;
 - b. Bidder's All Risk Policy;
 - c. Third Party Insurance.
- **22.2** Policies and certificates for insurance shall be delivered by the Bidder to the Owner for approval before the Date of Start of work i.e. dates of execution of the contract. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- **22.3** If the Bidder does not provide any of the policies and certificates required, the Owner may affect the insurance which the Bidder should have provided and recover the premiums the Owner has paid from payments otherwise due to the Bidder or if no payment is due, the payment of the premiums shall be a debt due.
- **22.4** Alterations to the terms of the insurance shall not be made without the approval of the Owner.
- 22.5 Both parties shall comply with the conditions in the insurance policy.
- **23.0 Setting out Works:** The bidder shall set out the works and responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions and alignment of all parts thereof, if at any time any error shall appear during the progress of any part of works the bidder shall at his own expenses rectify such error, if called upon to the satisfaction of the Owner.
- 24.0 Bidder to remove all offensive matter, non-suitable material etc immediately.
 - **24.1** All debris, excavated soil, filth or other matter or an offensive nature taken out of any trench, sewer, drain cesspool or other place shall not be deposited on the surface but shall be at once carted away by the bidder out of the premises/ site under intimation to concerned authorities.
 - **24.2** Any material brought on site if found unsuitable shall be removed from site at once by the Bidder under intimation to the concerned authorities.

25.0 Inspections by Owner

- **25.1** The representative of the Owner at all times have free access to the works and /or to the workshops, factories or other places where materials are being prepared or constructed for the Contract and also to any place where materials are lying or from which they are being obtained. No person except the representatives of Public authorities shall be allowed on the work at any time without the written permission of the Owner. If any work is to be done at a place other then the site of the works, the Bidder shall obtain written permission of the Owner for doing so.
- **25.2** The Owner and their representatives shall have the right to test and/ or inspect the works to confirm their conformity to the contract, at all times, whenever in progress either on the site on the Bidder's premises wherever situated or any firm or company where work in connection with this contract may be in hand. All records, registers or documents relating to the works including materials used on works shall be kept open to the inspection of the Owner or his Authorized representative when so called for in writing.
- **25.3** The Bidder shall get the quality of work done inspected for material and workmanship at different stages of execution as per instructions given by the Owner or their representative from time to time. Any item of work done which is found not conforming to the Contract shall be rejected by the Owner. The decision of the Owner in such cases shall be final.
- **25.4** The inspections and tests may be conducted on the premises of the Bidder or at the Project site. When carried out on the premises of the Bidder or its sub-Bidder(s), all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the Owner.
- **25.5** Should any inspected items of work fail to conform to the specifications, the Owner shall communicate them and the Bidder shall either replace them or make all alterations necessary to meet specification requirements free of cost to the Owner.

25.6 The Bidder shall permit the Owner/Architect to inspect the Bidder's accounts and records relating to the performance of the Bidder and to have them audited by auditors appointed by the Owner, if so required.

26.0 Covering Up/Uncovering of Works

- **26.1** No part of the works shall be covered up without the approval of the Owner and the Bidder shall afford full opportunity for examination and inspection by the Owner. The bidder shall give due notice to the EIC about the work to be covered up for its measurements and examination. The EIC shall within a reasonable time attend for the purpose of examining such work, unless the EIC specifically advises the Bidder in writing of his unwillingness not to attend for such examination in which case the Bidder may proceed further with the Contract work.
- **26.2** Should the Owner consider it necessary in order to satisfy himself as to the quality of the work, the Bidder shall at any time during the continuance of the contract pull down or cut into any part of the work and make such opening into and to such an extent through the same, as the Engineer may direct and the Bidder shall make good the whole to the satisfaction of the Engineer, should the work prove to be faulty or in any respect not in accordance with the terms of the contract documents, the Engineer shall be at liberty to order such further removal as he may consider necessary and the whole of the expenses incurred shall be borne by the bidder. If however, the work proves to be sound and in accordance with the contract document, the actual expenses incurred in such examination will be borne by the Owner.
- **26.3** Rates charged by the Bidder for works performed under the contract shall not vary from the rates quoted by the Bidder in its bid, with the exception of any price adjustments authorized in SCC or in the Owner's request for bid validity extension, as the case may be.
- **26.4** If requested by the Owner, the Bidder shall provide the Owner with a detailed cost breakdown of any rate in the Schedule of Quantities.
- 26.5 The Owner may at any time / stage of execution demand for the Analysis of Rates for any item / items of work which in their opinion is / are abnormally high / low rates or required for the Analysis of Rates of other Publish / extra item / items. The Bidder is bound to present the same and if the Bidder is unable to present a justified Analysis of Rates for any item / items, the rate / rates for such item may be adjusted accordingly and the decision of the Owner in such cases shall be final.

27.0 Change in the order/ Extra items of work.

- **27.1** The Owner may at any time, by written order given to the Bidder, make alterations in, omissions from, additions to, or substitutions for, in drawings, designs or specifications or quantities of the items of work.
- **27.2** Owner reserves to itself the right of omission of any item of work from the awarded Publish at any time / stage during the execution of work and award the same to another agency / bidder.
- **27.3** The Owner may at any time by written order given to the Bidder, increase the scope of work or include any new item of work. The Bidder shall be bound to carry out such works, the rates for which shall be arrived as below:
 - a. In the case of Extra Item(s) being the schedule item(s) (Delhi Schedule of Rates item), these shall be paid as per the schedule rate (at the time of tender) plus/minus percentage above/below quoted contract amount. Payment of Extra Item(s) in case of non-schedule item (Non-DSR item) shall be made as per the prevailing market rate.
 - b. In the case of Substituted item(s) being the schedule item(s) (Delhi Schedule of Rates item), these shall be paid as per the schedule rate (at the time of tender) plus/minus percentage above/below quoted contract amount. Payment of substitute in case of non-schedule item (Non-DSR item) shall be made as per the prevailing market rate.

28.0 Payment

- 28.1 The method and conditions of payment to be made to the Bidder under the contract shall be specified in SCC.
- **28.2** Payment shall be made promptly by the Owner within thirty (30) days of certification of the bill by the Owner.
- **28.3** All intermediate running payments to the bidder shall be regarded as payments by way of advance against the final payment and shall not preclude the requiring of bad, unsound and imperfect or unskillful work to be removed, taken away and reconstructed or re-erected.

29.0 Variations and Provisional Cost (If applicable):

- **29.1** Where work cannot be measured and valued properly, the Bidder shall be allowed day work rates on the prices prevailing when such work is carried out (unless otherwise provided in the contract): a. At the rates if any inserted by the Bidder in the priced Schedule of Quantities or b. If no such rates have been inserted then at the rates prevailing in the market for material and labour and at the control rates for the controlled materials including in all cases the rate for delivery of the material at the work.
- **29.2** Provided that in any case voucher specifying the time daily spent upon the work (and if required by the Owner the workman's names) and the materials used shall be delivered for verification to the Owner, or his authorized representative not later than the end of the week following that in which the work has been executed. Effect shall be given to the measurement and valuation of variations in interim Certificates and by adjustment of the total Contract Value.

30.0 Claims for Extra or for Deductions

- **30.1** The Owner shall not be responsible for the payment of any claim for extra work not included in the contract nor the Bidder shall be entitled to claim any addition to the contract sum in respect of any changes or alterations in the materials used unless the same shall have been ordered or sanctioned, as the case may be, in writing by the Owner.
- **30.2** The Bidder has to submit a monthly return by 10th of the ensuing month for any extra work which in his opinion is not covered by the contract agreement through the Owner's/ Owner's representatives and obtain a receipt from the authorized signatory of the Owner. Failing this, he shall have no right to any such claim, whatsoever may be the circumstances, later on.
- **30.3** In the event of any dispute arising either as to validity of the claim or as to the account to be paid or allowed in respect thereof, the decision of the Owner shall be final and binding on the bidder. In the meantime, the Bidder may either proceed with the work in question or suspend the same as may be determined by the Owner.
- **30.4** All extra works (those permitted by Owner) of every description shall be executed by bidder on site of work in pursuance of any of the provision of the contract, shall be measured up, and shall be paid according to actual quantities ascertained by such measurements and the prices as finalized by the Owner based on the priced schedule of quantities so that such priced schedule of quantities shall include all such operations and accessories as appear in the said schedule of prices or specification to be or shall in the opinion of the Owner the contingencies upon the works mentioned in such schedule of prices or required to make such works perfect and fit for use.
- **30.5** Provided also that if any work shall be ordered by the Owner and executed by the Bidder for the payment of which no provision in the opinion of the Owner have been made in the priced schedule of quantities or the specifications, the Owner shall fix and determine such prices for the same based on the prices appearing in the priced schedule of quantities, such allowance being made as may seem to the Owner sufficient for any difference in the character of conditions of the work. However, rates for extra items shall be fixed on the basis of actual rate analysis.
- **30.6** If, it shall appear that the work has been executed with unsound, imperfect or unskilled workmanship, or with material of any imperfect or any inferior quantity or otherwise not in accordance with the contract documents the Bidder shall at his own cost rectify, reform, remove, or reconstruct the same, wither in the whole or in part, as may be directed by the EIC, whether or not the value of any such work or materials shall have been included in any payment made to the Bidder.
- **30.7** The Bidder shall remove all malba etc., wash and clean the floors and hand over the site quite clean on the completion of the work.

31.0 Delay in the Bidder's performance

- **31.1** Execution of the work and performance of the services shall be done by the Bidder in accordance with the time schedule specified by the Owner in the Notice inviting tender.
- **31.2** If, at any time during performance of the contract, the Bidder should encounter conditions impending timely execution of the works and performance of services, the Bidder shall promptly notify the Owner in writing of the fact of the delay, its likely duration and its cause(s). As soon as possible, after receipt of the Bidder's notice, the Owner shall evaluate the situation and may, entirely at its discretion, extend the Bidder's time for performance with or without liquidated damages

32.0 Liquidated Damages: If the Bidder fails to execute any or all of the works or to perform the services within the period(s) specified in the contract, the Owner shall deduct from the contract value, as liquidated damages, a sum specified in the SCC for each week or part thereof delay until actual completion or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Owner may consider termination of the contract.

33.0 Termination by Default

The Owner may without prejudice to any other right or remedy, by written notice (of fifteen days) of default sent to the Bidder, terminate the contract in whole or part: a) if the Bidder fails to complete any or all of the works within the period(s) specified in the NIT or any amendment thereof, or within any extension thereof granted by the Owner, or for any cause including unsatisfactory performance or violation of the terms and conditions of the contract whatsoever or b) if the Bidder fails to perform any other obligation(s) under the contract.

In the event, the Owner terminates the contract in whole or in part, the Owner may procure, upon such terms and in such manner as it deems appropriate, works or services like those unexecuted and the Bidder shall be liable to the Owner for any excess costs for such similar work or services. However, the Bidder shall continue the performance of the contract to the extent not terminated.

The owner may terminate the contract bond without prejudice due to financial malpractice/ misbehavior/ verbal or physical assault/ poor quality of work etc. Further to this the bidder shall be debarred for two years for participating in any tender of IIT Roorkee.

Termination of the contract shall not relieve the agency/bidder from any of his obligations imposed by the contract with respect to the work performed by them prior to such termination.

In case of termination of the contract, IIT Roorkee reserves the right to get the work done by deploying other agencies. Cost incurred for the same will be recovered from agency's bill /PBG/pledged FDR.

For any above-mentioned cause including unsatisfactory performance or violation of the terms and conditions of the contract whatsoever, the contract is liable to be terminated and the agency is liable to be blacklisted and security deposit/ Performance Bank Guarantee submitted by the agency shall be forfeited and bank guarantee will be encashed.

34.0 Force Majeure

- **34.1** The Bidder shall not be liable for forfeiture of its performance guarantee, liquidated damages or termination by default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- **34.2** For purposes of this clause, "Force Majeure" means an unforeseeable event beyond the control of the Bidder and is not because of the Bidder's fault or negligence. Such events may include acts of the Owner either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics.
- **34.3** If a Force Majeure situation arises, the Bidder shall promptly notify the Owner in writing of such conditions and the cause thereof. Unless otherwise directed by the Owner in writing, the Bidder shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- **35.0 Termination for Insolvency:** The Owner may at any time terminate the contract by giving written notice to the Bidder, if the Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Bidder, provided such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Owner.
- **36.0** Termination for Convenience: The Owner, by written 30 days prior notice sent to the Bidder may terminate the contract, in whole or in part, at any time for its convenience. The notice shall specify that the termination is for Owner's convenience, the extent to which performance of the Bidder under the contract is terminated, and the date upon which such termination becomes effective. The items of work that are complete and ready within (1) month after the Bidder's receipt of notice of termination shall be accepted by the Owner at the contract terms and values. For the remaining works, the Owner may elect;

a) to have any portion completed at the contract terms and value and/or

b)to cancel the remainder and pay to the Bidder an amount, finalized by the Owner, for partially completed works and for materials and parts previously procured by the Bidder.

37.0 Resolution of Disputes

- **37.1** The Owner and the Bidder shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the contract. If, after thirty (30) days from the commencement of such informal negotiations, the Owner and the Bidder have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolutions to the formal mechanisms specified in the SCC. These mechanisms may include but are not limited to, Arbitration in accordance with rules of Arbitration Act and award made in pursuance thereof shall be binding on both the parties.
- **37.2** All disputes should be under the Jurisdiction of civil court Roorkee.
- **38.0 Governing language:** The contract shall be written in Hindi or English language. All correspondence and other documents pertaining to the contract that are exchanged by the parties shall be written in the same language.
- **39.0 Governing law:** The contract shall be governed by the laws of The Union of India for the time being in force. All disputes are subject to jurisdiction of courts at Roorkee or Honorable High Court Uttarakhand at Nainital.
- **40.0** Notices: Any notice given by one party to the other pursuant to this contract shall be sent to the other party in writing by e-mail or letter and confirmed in writing to the other party's address specified in SCC. A notice shall be effective on the date on which it is delivered, or on the notice's effective date, whichever is later.
- **41.0 Discoveries:** Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Owner. The Bidder is to notify the Owner of such discoveries and carry out the Owner' instructions for dealing with them.
- **42.0 Dismissals of workmen:** The bidder on request from the Owner, immediately dismiss from the works any person employed by him who may be found in the opinion of the client to be unsuitable or incompetent or who has shown misconduct.
- **43.0 Working Hours:** Normal working hours shall be from 08:45 a.m. to 05:30 p.m. No construction work of an important structural nature shall be carried out on Sundays, Holidays and during nights. However, working hours can be extended in case of urgency with prior approval of IIT Roorkee.

B. TIME CONTROL

44.0 Program

44.1 Within the time stated in the Contract Data the Bidder shall submit to the Owner for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the works, along with weekly cash flow forecast.

An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.

- **44.2** The Bidder shall submit to the Owner, for approval, an updated Program at intervals no longer than the period as stated in clause no. 7.1. If the Bidder does not submit an updated Program within this period, the Owner may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue program has been submitted.
- **44.3** The Owner's/Owner's approval of the Program shall not alter the Bidder's obligations. The Bidder may revise the Program and submit it to the Owner again at any time. A revised Program is to show the effect of Variations at any stage of work, Owner award any item/part of item of work to bidder's workman/ external agency, if in their opinion, the progress of work is suffering because of that. The work done will be added to the Bidder's bill and the amount paid for the job will be deducted from the Bidder's account.

45.0 Delay and Extension of time

If in the opinion of the Owner the work be delayed

- a) by force majeure or
- b) by reason of any exceptionally inclement weather or
- c) by reason of proceedings taken or threatened by or disputes with adjoining or neighboring owners or public authorities or
- d) by delays of other bidder or Tradesmen engaged by the Owner or the Owner and the works not referred to in the Schedule of Quantities and/or specification or
- e) by reasons of Owner's instruction or
- f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or
- g) in consequence of the bidder not having received in due time necessary instructions from the Owner for which he shall have specially applied in writing or
- h) from other cause which the Owner may certify as beyond the control of the bidder or
- i) by reason of nonpayment of interim certificate at specified time, the Owner shall grant for approval by the Owner a fair and reasonable extension of time for completion of the Contract. In case of strike or lockout the bidder shall as soon as be given written notice thereof to the Owner, but the bidder shall nevertheless constantly use his endeavours to prevent delay and shall do all that may reasonably be required to the satisfaction of Owner to proceed with the work.

C. QUALITY CONTROL

46.0 Identifying Defects: The Owner shall check the Bidder's work and notify the Bidder of any Defects that are found. Such checking shall not affect the Bidder's responsibilities. The Owner may instruct the Bidder to search for a Defect and to uncover and test any work that the Owner considers may have a Defect.

47.0 Correction of Defects

- **47.1** The Owner shall give notice to the Bidder of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability period shall be extended for as long as Defects remain to be corrected.
- **47.2** Every time notice of Defect is given; the Bidder shall correct the notified Defect within the length of time specified by the Owner' notice.
- **48.0 Uncorrected Defects:** If the Bidder has not corrected a Defect within the time specified in the Owner' notice. In case it is felt by the Owner that undue delay is being done by the bidder, the same will be got done by the Owner at the risk and cost of the contractor.

D. COST CONTROL

49.0 Schedule of Quantities

- **49.1** The Schedule of Quantities shall contain items for the construction work, installation, testing, and commissioning work to be done by the Bidder.
- **49.2** The Schedule of Quantities is used to calculate the Contract Price. The Bidder is paid for the quantity of the work done at the rate in the priced Schedule of Quantities for each item.
- **50.0 Variations:** All variations in the program pursuant to clause no. 7.0 of GCC shall be included in the updated program produced by the Bidder.

51.0 Payments for Variations

51.1 The Bidder shall provide the Owner with a quotation (with breakdown of unit rates) for carrying out the Variation when requested to do so by the Owner. The Owner shall assess and finalize the quotation, which shall be given within seven days of the request or within any longer period stated by the Owner and before the Variation is ordered.

- **51.2** If the Bidder's quotation is unreasonable, the Owner may order the Variation and make a change to the Contract Price which shall be based on Owner' own forecast of the effects of the Variation on the Bidder's costs.
- **51.3** If the Owner decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and shall be treated as a Variation.
- **51.4** The Bidder shall not be entitled to additional payment for costs, which could have been avoided by giving early warning.

E. FINISHING THE CONTRACT

- **52.0 Completion Certificate**: The Bidder shall request the Owner to issue a Certificate of Completion of the Works will do so upon deciding that the Work is completed.
- **53.0 Taking Over:** The Owner shall take over the Site and the Works within seven days of the Owner issuing a certificate of Completion. Before handing over the site, the bidder must obtain a site clearance certificate from the Owner.
- **54.0 Final Account:** The Bidder shall supply to the Owner a detailed account of the total amount that the Bidder considers payable under the Contract before the end of the Defects Liability Period. The owner shall issue a Defect Liability Certificate and certify any final payment that is due to the Bidder within 5-6 days of receiving the Bidder's account if it is correct and complete. If it is not, the Owner shall issue within 5-6 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Owner shall decide on the amount payable to the Bidder and issue a payment certificate within 5-6 days of receiving the Bidder's revised account.

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract are supplementary to the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions of Contract is indicated in parentheses.

1. Definition (SCC clause 1.0)

- a) Owner means: IIT Roorkee.
- b) Site means the project site situated in IIT Roorkee Main Campus.
- 2. (i) Security Deposit: As per Critical Data Sheet.

(ii) Release of Security Deposit: Release of Security Deposit: Security Deposit will be released after completion of Defect Liability Period i.e. 12 months from date of work completion.

3. Performance Guarantee: As per Critical Data Sheet. The performance guarantee shall be valid for a period of 60 days from the completion of the contract.

4. Warranty (Defective Liability Period):

- i) The minimum warranty period will be one year Equipment warranty certificates as per OEM will be submitted to the department.
- ii) During the warranty period, all elements of the system which fail due to manufacturing defects or operational wear & tear shall be replaced / repaired by the bidder without any charges. In case it is felt by the department that undue delay is being caused by the bidder in doing this, the same will be got done by the department at the risk and cost of the bidder. The decision of Dean Infrastructure in this regard shall be final.
- iii) The bidder shall warranty the performance of the system. If it is not achieved, the necessary additions/modifications shall be done by the bidder without charging any extra price. However, the owner reserves the right to have this job done by other manufacturers if the bidder does not get the work done within 15 days of issuing the notice to the bidder. The cost for the same shall be borne by the bidder.

5. Payment:

- **5.1** No advance payment shall be made.
- **5.2** Part of the payment can be withheld by the department.
- **5.3** Payments will be made on execution of at least 25% of the contract value or quarterly according to submission of bill OR as approved by Dean, Infrastructure.
- 5.4 Payment shall not be released against 1st R/A bill until submission of following documents by bidder to the Owner:
- a) Measurements
- b) GST Invoice with revenue stamp.
- c) EPF & ESI deposit proof.
- d) Insurance Bidder's All Risk (CAR) Policy, Workmen compensation policy and Third-PartyLiability Insurance.
- 5.5 Basis of Payment in RA bills Payment in RA bills shall be based on quantity of work executed at site (as per the item of work) & verified by Owner as per the item rate in work orders. The owner is authorized to allow payment for part rate/reduced rate/full rate for any item(s) in the Schedule of Quantity. Further owner is authorized to allow different part rates/ reduced rate for different item(s).
- **5.6** Disallowance of payment

If payment has been made in RA bill for any item of work but later some defect is noticed, Owner/Architect is authorized to disallow the payment in the subsequent bills till rectification of the work.

5.7 Final bill

The final bill complete in all respect shall be submitted by the bidder within 60 days from the date of completion of work. The total quantity may vary as per actual work execution/site requirement/and user suggested changes during execution.

The bill should be accompanied by the following documents.

- a) Work completion certificate.
- b) Site clearance status (if applicable)
- c) Indemnity certificate for labour payment and all statutory payments.
- d) Certificate of test on materials etc. (if applicable/ if conducted).
- e) Certificate of measurement sheets.
- f) Original quality control record (if applicable), measurement records and any other joint site records maintain at site (if applicable). No claim shall be entertained after receipt of the final bill.
- g) Warranty certificate (if applicable).

Settlement of the final bill shall be made subject to deduction of all dues payable by the bidder, settlement of all disputes and furnishing of all required documents/clarifications and grant of extension of time, if any, by Owner's competent authority.

6. Liquidated Damages

The quantum of work with stipulated time (as per discretion of EIC) will be communicated to the firm via email, hard copy or telephonically. In case of delay/partial completion, 0.5% per week of balance / unattended work subject to a maximum of 5% (Five percent) of the Contract value from the stipulated date of completion.

7. Resolution of Disputes

In case the parties don't agree to the advice of the owner, then the Director, IIT Roorkee shall appoint a sole arbitrator within 30 days of receipt of request forthwith. The arbitration shall be governed by the Arbitration and Reconciliation Act 1996.

8. Notices

For the purpose of all notices, the following shall be the address of the Owner and the Bidder.

Owner: Dean Infrastructure, Institute Works Department, Indian Institute of Technology Roorkee

Bidder:

(To be filled in at the time of Signing of the Contract)

9. Resolution of Disputes & Arbitration

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here in 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, designs, 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 cancellation, terminations, completion or abandonment thereof shall be dealt with as mentioned hereinafter.

If the bidder considers any work demanded of him to be outside the requirements of the contract or disputes any drawings, record or decision given in writing in connection with or arising out of the contract or carrying out of the work, he shall promptly within 15 days request the Owner in writing for written instruction or decision.

If the Bidder is dissatisfied with this decision, the Bidder shall within a period of 30 days from receipt of the decision, give written notice to the IIT Roorkee for appointment of Arbitrator failing which the said decision shall be final binding and conclusive and not referable to adjudication by the Arbitrator.

Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by The Director, IIT Roorkee. If reason whatsoever another sole arbitrator shall be appointed in the manner aforesaid. Such a person shallbe entitled to proceed with the reference from the stage at which it was left by his predecessor. It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of arbitrator. It is also a term of this contract that no person other than a person appointed by IIT Roorkee as aforesaid should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 30 days of receiving the intimation from the Owner that the final bill is ready for payment, the claim of the bidder shall be deemed to have been waived and absolutely barred and IIT Roorkee shall be discharged and released of all liabilities under the contract in respect of these claims. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause.

10. Protection of environment

- 8.1 The Bidder shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising because of his methods of operation.
- 8.2 During continuance of the contract, the Bidder and his sub-bidders shall at all times abide by all existing enactment on environmental protection and rules made there under, regulations, notifications and bye-law of the State or Central Government, or local authorities and any other law, by-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.
- 8.3 Salient features of some of the major laws that are applicable are given below:

The Water (Prevention and Control of Pollution) Act, 1974 This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

The Air (Prevention and Control of Pollution) Act, 1981, This provides for prevention, control and abatement of air pollution, 'Air Pollution' means the presence in the atmosphere of any air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The Environment (Prevention and Control of Pollution) Act, 1986 This provides for the protection and improvement of the environment and for matters connected to herewith, and the prevention of hazards to human beings. Other living creatures, plants and property, 'Environment' includes water, air and land and the interrelationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.

The Public Liability Insurance Act 1991. This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substance

means any substance or preparation which is defined as a hazardous substance under the Environment (Protection) Act 1986 and exceeding such quantity as may be specified by notification by the Central Government.

11. Specifications to be followed for execution for execution of works are:

For Civil Works: CPWD Specifications 2009 Vol. 1 and Vol. 2 with up to date correction slips. (Hereinafter called CPWD specifications also) and Specification mentioned in This Publish document for each project.

For Electrical Works: CPWD General Specifications for Electrical Works, Part-I (Internal) 2023 and CPWD General Specifications for Electrical Works, Part-I (External) 2023 and Specification mentioned in this bid document for each project.

- 12. If the bidder wants to offer any unconditional rebates on their offer that should be clearly mentioned.
- **13.** In case any information furnished by the bidder is found to be false / forged / incorrect at any stage, their bid shall be rejected, and the bidder shall not be allowed to participate in the re-bidding process of the work.
- **14.** Clarification of Bids/ Shortfall Documents: IIT Roorkee may, at its discretion, ask the bidder for clarifications / shortfall documents related to his bid. The request for clarification shall be given in writing. Depending on the reply of the bidder, his bid shall be ignored or considered further.
- **15.** Tender will be awarded on an overall L1 basis.

16. Abnormally High and Low Bids:

- a) Tender evaluation committee (TEC) will observe the rates and seek justifications if that are abnormally high/low. Threshold value over which the rates would be judged high/low shall be decided by the TEC looking into the nature of work and their specification on case-to-case basis
- b) If required, necessary for high bids negotiation will be done with the approval of the Competent Authority. However, if the rates will be found abnormally low additional security shall be got deposited as per the following formula:
- i) Up to 30% less than the estimated cost: nill
- ii) Above 30% and less than up to 50%: 20%
- iii) Above 50% and less than up to $70\%\colon40\%$
- 17. The bidder who has two ongoing General Repair & Maintenance/Routine works in-hand for electrical works and three ongoing General Repair & Maintenance/Routine works for civil works shall not be allowed to participate in another fresh tender of General Repair & Maintenance/Routine works.
- **18.** Working/Running Contractor who have completed their work upto/ above the awarded value of contract bond duly verified by the Engineer-in-charge shall be considered as work completed and such contractors shall be allowed to participate in tenders.
- 19. Only 'Class-I local supplier' and 'Class-II local supplier', as defined in the Public Procurement (Preference to Make in India), Order 2017 shall be eligible to bid in the tender. For more details, please refer to: Order No.: P-45021/2/2017-PP (BE-II), DPIIT, Ministry of Commerce and Industry issued Dated: 16th Sept. 2020. A self-certificate has to be provided in this regard that the item offered meets the local content requirement for 'Class-I local supplier' & 'Class-II local supplier' (as per Annexure-C).
- 20. The estimate is based on DSR-2022 (E&M) / DSR 2021(Civil) / Nonscheduled rates with 18% GST and 1% BOCWW Cess.
- 21. In case the GST rate is changed by the GOI then the item rate in the estimate shall be changed on pro-rata basis.

Undertaking

(On Non-Judicial stamp paper of Rs. 100/- & duly notarized)

Name of the address of the bidder: NIT No..... Name of the work: Due Date:

I/We have read and examined the Tender document for the work. I/We hereby submit bid for the execution of the work specified for the Institute within the time specified in NIT of quantities and in accordance with the specifications, designs, drawing and instructions in writing referred to the conditions of contract and with such materials as are provided for, by, and in respect of accordance with such conditions so far as applicable.

I/We agree to keep the Bid open for ninety (90) days from the due date of its opening and not to make any modification in its terms and conditions.

Earnest Money as mentioned in the critical data sheet is hereby forwarded in Bankers' Cheque / Demand Draft / Fixed Deposit Receipt issued by scheduled bank. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the Institute has to right to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that the Institute has to right to forfeit the said performance guarantee absolutely. The said performance guarantee shall be a guarantee to execute all the works referred to in the Tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in NIT. Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-Tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another bidder on back-to-back basis. Further that, if such a violation comes to the notice of owner, then I/we shall be debarred for tendering in IWD, IIT Roorkee in future forever. Also, if such a violation comes to the notice of the owner before the date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

I/We hereby declare that I/We have no near relative connection by marriage to any staff of the Institute.

The information given in the tender form is correct and to the best of my knowledge.

Dated:

Witness:

Signature of Bidder

Postal Address

Occupation:

PERFORMANCE GUARANTEE BOND

2. Wedo hereby undertake to pay the amounts due..... and payable (Indicate the name of the Bank) under this Guarantee without any demur, merely on a demand from the Indian Institute of Technology Roorkee stating that the amount claimed is 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 (Rupees only).

3. We, the said bank further undertakes to pay to the Institute 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 there under and the contractor(s) shall have no claim against us for making such payment.

4. Wefurther agree that the guarantee herein contained shall (Indicate the name of the Bank) remain in full force and effect during the period that would be taken for performance of the said agreement, and it shall continue to be enforceable till all the dues of the Indian Institute of Technology Roorkee 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 Institute 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.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

8. Th	is guarantee s	hall be va	lid up to		<i>ı</i>	inless ex	tended on der	mand by In	dian Instit	ute of
Techno	logy Roorkee.	Notwiths	tanding anything	g mention	ed above, our	liability	against this	guarantee	is restrict	ed to
		(Rupe	es		only)and	unless	a claim in	writing is	lodged wi	ith us
within a	six months of	the date	of expiry or the	extended	date of expiry	of this	guarantee al	l our liabil	ities unde	r this
guaran	tee shall	stand	discharged.	Dated	the					day
of			for			(In	ndicate the na	me of the E	ank).	

SCOPE OF WORK / RESPONSIBILITIES OF THE BIDDER:

- 1. Day to day electrical maintenance of all residential and non-residential buildings.
- 2. Complete maintenance of street/ outdoor lighting.
- 3. Repairing of all electrical fittings etc.
- 4. Complete maintenance renovations, re-wiring related to H.T. /L.T. systems, power transformers, feeder pillars, UG cables etc.
- 5. Other than all the above work any work related to electrical repair or maintenance may also be done by the agency.
- 6. All work shall be done as per the schedule given by EIC.
- 7. The contractor shall be bound to complete the work within the stipulated timeline as instructed by EIC. No excuses shall be entertained for the delay of contract time or award time due to machine is not working, manpower is short on site, strike of the employees, heavy rain, hot sun in summer etc.
- 8. Contractor or representative (with power of attorney) are bound to attend the periodic meeting (as and when called by EIC) for contract management (or any other issue related to contract) at IIT Roorkee.
- 9. IIT Roorkee is a Tobacco free campus, therefore instance consumption/possession of tobacco or alcoholic substance by the manpower deployed than EIC shall impose penalty for each violation on the contractor.
- 10. The personnel deployed shall be of good health and moral character, well behaved, obedient, experienced and skillful in their respective tasks. The Successful Bidder(s) should provide necessary uniform/apron to their labours at their own cost. The cost of Identity Cards to the staff shall also be borne by the Successful Bidder(s).
- 11. The personnel employed by the Successful Bidder(s) shall compulsorily wear the prescribed uniform while on duty and shall always carry his / her Identity Cards. Necessary penalty as per the assessment of EIC shall be imposed if at any instance the manpower not wearing uniform or not carrying identity card.
- 12. Successful Bidder(s) shall be solely responsible for accommodation, remuneration, omissions / commissions of personnel deployed at the Institute premises.
- 13. In case of theft of any material takes place from the office/residences on account of the negligence on the part of the personnel deployed by the Successful Bidder(s). Amount for loss/theft will be recovered from the Successful Bidder(s) while settling the bill.
- 14. If the described electrical work is not done as per satisfaction of EIC or any higher officer, the penalty will be imposed as per assessment of EIC. The penalty imposed by EIC will be final.
- 15. The bidder shall execute the required work within the time limit after the email / written instruction from IIT Roorkee side. Failure to this a penalty of 0.5% of ordered amount per day will be imposed by the EIC. In the event of continuous noncompliance of instructions, the Institute has all the right to execute the work from the other source on the total risk and cost of the bidder. In addition, action may be taken for blacklisting / debarring bidder in respect of future works / tenders.
- 16. The bidder should have their registered office / branch in Roorkee / Haridwar / Dehradun / equivalent distance. If not, an office should be opened in Roorkee within 30 (thirty) days of award of work, where an empowered person must be posted, who can take decision on any situation relating to the performance of the agency's obligation under this contract. The above office shall remain open till all the contractual obligations are fulfilled.
- 17. The bidder will depute his supervisor /Engineer to take care of site related matters.
- **18.** The bidder shall ensure to MII compliances as per DPIIT's public procurement (preference to make in India) orders 2017.
- 19. Successful bidder shall pay the minimum wages as per current prevailing rates to the deployed manpower on daily wages basis and bidder will be paid accordingly.
- 20. Quantities are purely variable. It may be increased or decreased as per the institute's requirement.

21. Vendor will arrange safety gears such as safety shoes, safety helmets, gloves, sleeveless jacket etc. of reputed make for the manpower deployed at his own cost. If the manpower is found not wearing safety gears, a penalty of Rs. 200 per violation per person will be imposed by the EIC.

Institute Engineer

ANNEXURE - C

(to be submitted by the vendor/firm on its official letter head)

Self-Certificate for Local Content

Tender No:

Dated

We hereby certify that the items quoted by us against above mentioned tender no. has the local content as per below:

Local Content (in %):

Local Supplier Class:

The details of the Make in India items/parts used in the quoted products is/areas under:

- 1.
- 2.
- 3.

The details of the location(s) at which the local value addition made/manufactured is/areas under:

- 1.
- 2.
- 3.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature:

Name:

Designation:

Seal of the Firm/Organization:

INSTITUTE WORK DEPARTMENT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Schedule of Ouantities

NAME OF WORK: "Electrical General maintenance Renovation & Rewiring work in Zone-II, IIT Roorkee Campus at Zone-III, IIT Roorkee Campus."

Sl. No.	Item Description				
		Quantity	Units	Estimated Rate including GST@18% & 1%Cess in Rs. P	TOTAL AMOUNT including GST @18% & Cess in Rs. P
1	2	4	5	6	53
I I	Supplying and Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit ISI 16 gauge, with piano type switch, phenolic laminated sheet, suitable size M.S. Box and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable etc as required	50	Each	1311.27	65563.61
	dobut 2 way light point with 2 nos. two way P.T. switch.	2	Each	1970.67	3941.33
3 F	Supplying and Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit ISI 16 gauge with modular type switch, modular plate, suitable GI box and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable etc as required.	500	Each	1335.97	667986.33
	dobut 2 way light point with 2 nos. two way modular switches.	10	Each	2127.46	21274.61
5 tin	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. Box and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable etc as required	10	Each	1066.42	10664.15
6 K	Wiring for twin control light point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 mm ² . FRLS PVC insulated copper conductor single core cable etc. as required.	10	Each	1564.72	15647.20
7 ii	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable etc. as required.	20	Each	1090.04	21800.84

8	Wiring for twin control light point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable etc. as required.	2	Each	1677.48	3354.97
9	Rewiring for light point/fan point/exhaust fan point/call bell point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable make and earthing the point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable in existing surface/ recessed steel/ PVC conduit including dismantling as required.	200	Each	616.44	123287.51
10	Rewiring for twin control light point with 1.5 mm ² FRLS PVC insulated copper conductor single core cable and 1.5 mm ² FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.	200	Each	960.1	1920.19
11	Supplying and fixing 1.5 mm thick metal box of 150 mm x75 mmx 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 5 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (for light plug to be used in non residential buildings).	50	Each	384.47	19223.40
12	Supplying and fixing 1.5 mm thick metal box of 180 mm x 100 mmx 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 amps & 15/16 amps socket outlet and 15/16 amps piano type switch connection, painting etc. as required.	50	Each	524.08	26203.97
13	Supplying and fixing suitable size G.I. box with modular plate and cover in front on surface or in recess, including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.	2000	Each	512.27	1024532.08
14	Supplying and fixing suitable size G.I. box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular type switch, connection, painting etc. as required	1000	Each	629.32	629324.74
15	Supplying and Wiring for circuit/ submain line with 2x1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit ISI 16 gauge along with 1 no 1.5 mm ² FRLS PVC insulated copper conductor single core cable for loop earthing as required.	100	Meter	351.18	35117.61
16	do but $2x2.5 \text{ mm}^2 + 1x2.5 \text{ mm}^2$ earth wire	1500	Meter	396.28	594421.92
17	\dots do but 2x4 mm ² + 1x4 mm ² earth wire	3000	Meter	459.64	1378929.97
18	dobut 2x6 mm ² + 1x6 mm ² earth wire	300	Meter	632.55	189763.96
19	do but 2x10 mm ² + 1x6 mm ² earth wire	300	Meter	762.49	228747.73
20	do but 2x16 mm ² + 1x6 mm ² earth wire	200	Meter	1011.64	202328.98
21	do but 4 X 4 mm ² + 2 X 4 mm ² earth wire	200	Meter	727.05	145410.53
22	do but 4 X 6 mm ² + 2 X 6 mm ² earth wire	200	Meter	992.31	198462.82
23	do but 4 X 10 mm ² + 2 X 6 mm ² earth wire	200	Meter	1252.21	250441.18
24	do but 4 X 16 mm ² + 2 X 6 mm ² earth wire				
24		200	Meter	1766.62	353323.96

25	Supplying and Wiring for circuit/ submain line with 2 nos. 1.5 mm ² FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit ISI along with 1 no. 1.5				
-	mm ² FRLS PVC insulated copper conductor single core cable for loop earthing as required.	200	Meter	250.23	50045.28
26	do but 2x2.5 mm ² + 1x2.5 mm ² earth wire	200	Meter	295.33	59066.32
27	do but 2x4 mm ² + 1x4 mm ² earth wire	200	Meter	358.69	71738.72
28	dobut 2x6 mm ² + 1x6 mm ² earth wire	100	Meter	471.46	47145.66
29	dobut 2x10 mm ² + 1x6 mm ² earth wire	100	Meter	612.14	61214.18
30	dobut 2x16 mm ² + 1x6 mm ² earth wire	100	Meter	829.08	82907.63
31	dobut 4x4 mm ² + 2x4 mm ² earth wire	100	Meter	576.7	57670.20
32	dobut 4x6 mm ² + 2x6 mm ² earth wire	100	Meter	809.75	80974.55
33	dobut 4x10 mm ² + 2x6mm ² earth wire	100	Meter	1079.3	107930.27
34	dobut 4x16 mm ² + 2x6 mm ² earth wire	100	Meter	1465.92	146591.85
35	Supplying and drawing 2 x 1.5 sq mm sizes of FRLS PVC insulated copper conductor, single core cable in the exisiting surface/ recessed steel/PVC conduit as required with connection				
	complete.	100	Meter	75.18	7517.53
36	do but 3 X 1.5 sq mm	200	Meter	102.02	20404.73
37	do but 3 X 2.5 sq mm	200	Meter	147.13	29425.76
38	do but 3 X 4 sq mm	300	Meter	221.23	66369.06
39	do but 2 X 6 sq mm	200	Meter	231.97	46393.91
40	do but 3 X 6 sq mm	200	Meter	326.48	65295.13
41	do but 2 X 10 sq mm	100	Meter	326.23	32623.00
42	do but 2 X 16 sq mm	100	Meter	496.92	49692.00
43	do but 2 X 25 sq mm	100	Meter	689.83	68983.00
44	do but 1 X 35 sq mm	100	Meter	490.86	49086.00
45	do but 1 X 50 sq mm	100	Meter	684.78	68478.00
46	Supplying and drawing 2 pair, 0.5 mm ² FRLS PVC insulated copper conductor, unarmoured telephone cable in the exisiting surface/ recessed steel/PVC conduit as required.	10	Meter	40.81	408.09
47	do but 4 pair	10	Meter	57.99	579.92
48	Providing and fixing plain 16/0.20 mm (0.50 mm ²) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/wall, or side of the table/door etc. as required.	200	Meter	47.25	9450.61
49	Providing and fixing plain 16/0.20 mm(0.50 mm ²) twin, circular flexible, FRLS PVC insulated, PVC sheathed copper cable direct on wall with PVC clips etc as required.	100	Meter	42.96	4295.73
50	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, sheilded with fine tinned copper braid and protectiod with PVC sheath in the existing surface / recessed steel / PVC conduit as required.	5	Meter	50.47	252.37
51	Supplying and drawing of UPT 4 pair CAT 6 LAN Cable in the existing surface / recessed Steel / PVC Conduit as required 1run of cable	5	Meter	61.21	306.07

52	do but 2 run of cable	5	Meter	103.1	515.49
53	do but 3 run of cable	5	Meter	143.91	719.54
54	Supplying and fixing of 20 mm sizes of steel conduit ISI 16 gauge along with accessories in surface/ recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	50	Meter	239.49	11974.35
55	do but 25 mm size	50	Meter	274.93	13746.34
56	do but 32 mm size	20	Meter	350.1	7002.04
57	do but 40 mm size	10	Meter	504.75	5047.49
58	S/F of G.I. Flexible pipe 32 MM size including suitable size of PVC saddle and others all accessories as required.	50	Meter	115.14	5757.00
59	Supplying and fixing of 20 mm sizes of PVC conduit ISI along with accessories in surface/ recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	50	Meter	137.46	6873.17
60	do but 25 mm size	100	Meter	155.72	15572.03
61	do but 32 mm size	100	Meter	197.6	19760.37
62	S/F of steel wire rainforced flexible uPVC pipe 20 MM size including suitable size of PVC saddle and others all accessories as required. Makes : AKG/ BEC/ Prescision	10	Meter	112.11	1121.10
63	do but 25 MM size	10	Meter	127.26	1272.60
64	do but 30-32 MM size	10	Meter	159.58	1595.80
65	S/F of PVC Batten/casing caping of 20X12 MM size including suitable size of PVC cover and others all accessories as required.	50	Meter	98.98	4949.00
66	do but 25X12 MM size	50	Meter	104.03	5201.50
67	do but 32X12 MM size	20	Meter	111.1	2222.00
68	do but 50X16 MM size	20	Meter	174.73	3494.60
69	do but 50X50 MM size	20	Meter	241.39	4827.80
70	do but 75X50 MM size	20	Meter	479.75	9595.00
71	do but 100X50 MM size	20	Meter	631.25	12625.00
72	Supplying and fixing metal box of 75 mm x 75 mm x 60 mm deep sizes 1.5 mm thick sheet on surface or in recess with suitable size of phenolic laminated sheet cover in front including				
72	painting etc as required.	10	Each	191.16	1911.60
73	do but 100 mm x 100 mm x 60 mm deep do but 180 mm x 100 mm x 60 mm deep	10	Each	224.45	2244.52
74	do but 180 mm x 100 mm x 60 mm deep	10	Each	263.11	2631.14
75	do but 200 mm x 150 mm x 60 mm deep	10	Each	381.25	3812.46
76		10	Each	502.6	5026.01
77	do but 200 mm x 300 mm x 60 mm deep	10	Each	563.81	5638.15
78	do but 250 mm x 300 mm x 60 mm deep	10	Each	651.88	6518.77

79	Supplying and fixing 5/6 amps piano type switch on existing switch box/ cover including connections etc. as required.	200	Each	55.84	11168.90
80	do but 2-way 5/6 amp switch	10	Each	68.73	687.32
81	do but 15/16 amp switch	100	Each	129.95	12994.59
82	do but 5 pin 5/6 amp socket outlet	100	Each	74.1	7410.14
83	do but 6 pin 15/16 amp socket outlet	50	Each	147.13	7356.44
84	do but Bell push	5	Each	89.14	445.68
85	do but Batten/Angle holder	50	Each	118.13	5906.63
86	do but stepped type electronic fan regulator	20	Each	346.43	6928.60
87	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	200	Each	93.43	18686.43
88	Supplying and fixing 5/6 amps modular type switch on existing modular type plate & switch				
	box including connections but excluding modular plate etc. as required.	200	Each	110.62	22123.02
89	do but 2-way 5/6 amp switch	5	Each	158.94	794.71
90	do but 15/16 amp switch	200	Each	167.53	33506.71
91	do but 5 pin 5/6 amp socket outlet	100	Each	131.02	13101.98
92	do but 6 pin 15/16 amp socket outlet	100	Each	211.56	21156.48
93	do but Bell push	20	Each	150.35	3007.01
94	do but stepped type electronic fan regulator	200	Each	396.28	79256.26
95	do but modular blanking plate.	100	Each	42.96	4295.73
96	Supplying and fixing 1 or 2 module size/ modules, G.I. box along with modular base & cover plate for modular switches in recess etc as required.	10	Each	320.03	3200.32
97	dobut 3 module	50	Each	351.18	17558.80
98	dobut 4 module	50	Each	368.36	18417.95
99	dobut 6 module	50	Each	431.72	21586.05
100	dobut 8 module	20	Each	487.57	9751.31
101	dobut 12 module	50	Each	587.44	29372.07
102	Supplying and fixing 1 or 2 module size/ modules, PVC box along with modular base & cover plate for modular switches in recess/surface etc as required.	5	Each	161.6	808.00
103	dobut 3 module	20	Each	185.84	3716.80
104	dobut 4 module	20	Each	207.05	4141.00
105	dobut 6 module	20	Each	253.51	5070.20
106	dobut 8 module	20	Each	306.03	6120.60
107	dobut 12 /16 module	20	Each	538.33	10766.60
108	Supplying and fixing 1 or 2 module Modular base & cover plate on existing modular metal boxes etc. as required.	10	Each	142.83	1428.33
109	dobut 3 module	50	Each	162.16	8108.19

110	dobut 4 module	20	Each	169.68	3393.63
111	dobut 6 module	50	Each	195.46	9772.79
112	dobut 8 module	20	Each	226.6	4532.00
113	dobut 12/18 module	20	Each	292.11	5842.20
114	S/F of 3 mm thick phenolic laminated bakelite sheet including cutting as required with brass				
114	machine screw and cup washer complete.	50	Sq. Ft.	279.77	13988.50
115	S/F of 1.5 - 2.00 mm thick Stainless steel sheet including cutting as required with machine				
115	screw and cup washer complete.	10	Sqft	250.48	2504.80
116	Supplying and fixing call bell suitable for A.C. single phase, 230 volts, complete as required.	10	Each	106.32	1063.19
	Providing and fixing 125 amp, 16 KA, rating and breaking capacity TP MCCB in existing				
117	cubicle panel board including drilling holes in cubicle panel, making connections etc. as				
	required.	20	Each	5177.43	103548.62
118	do- but 150 / 160 amp 35 KA	10	Each	6435.01	64350.07
119	do but 250 amp 35 KA MCCB	10	Each	14907.26	149072.64
120	do but 400 amp 35 KA MCCB	10	Each	23181.92	231819.18
121	do but 630 amp 50 KA MCCB	5	Each	29919.77	149598.87
	Providing and fixing 125 amp, 36 KA, rating and breaking capacity 4P MCCB in existing				
122	cubicle panel board including drilling holes in cubicle panel, making connections etc. as				
	required.	5	Each	8815.92	44079.58
123	do but 250 amp 36 KA MCCB	5	Each	18804.57	94022.83
124	do but 400 amp 50 KA MCCB	5	Each	45819.35	229096.76
125	do but 630 amp 50 KA MCCB	2	Each	46277.92	92555.84
	Supplying and fixing of 8-way, double door prewired SP&N MCB distribution board of steel				
126	sheet for 240 volts on surface/ recess complete with tinned copper bus bar, neutral bus bar,				
120	earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But				
	without MCB/RCCB/Isolator)	10	Each	2763.23	27632.30
127	do but 12-way, double door	20	Each	2486.15	49723.10
128	do but 16 way, Double door	10	Each	3373.22	33732.24
	Supplying and fixing 4 way (4+12), double door, horizontal type three pole and neutral, sheet				
129	steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus				
12)	bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing	10		1000 10	
100	etc. as required. (But without MCB/RCCB/Isolator)	10	Each	4393.46	43934.60
130	do but 6 way (6 + 18), double door TPN DB	10	Each	5341.74	53417.43
131	do but 8 way (4 + 24), double door TPN DB				
131		10	Each	6408.16	64081.58

132	Supplying, installation, testing and commissioning of surface/ recess mounting, vertical type, 415 volts, prewired, TPN MCB distribution board of sheet steel, dust protected, duly phosphatized and powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar for mounting MCB's, detachable gland / knock out plate and superior make terminal connectors for all incommining and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor upto the terminal connector/ neutral link and ready for installation of 4 ways (4+12) double door (but with out MCB's and				
	incommer MCCB) as required.	10	Each	8067.38	80673.85
133	do but 8 way (4 + 24), double door VTPN DB	10	Each	10916.53	109165.29
134	dobut12 way (4 + 36), double door VTPN DB	10	Each	13781.78	137817.82
135	Removal / Fixing off size, SPN type sheet steel, MCB distribution board, 230 volts, on surface/ recess, complete with connection, repairing etc. including earthing etc. as required. (But without MCB/RCCB/Isolator)	5	Each	440.36	2201.80
136	Removal / Fixing off size, TPN type horizontal / Vertical, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with connection, repairing etc. including earthing etc. as required. (But without MCB/RCCB/Isolator)	5	Each	521.16	2605.80
137	Supplying and fixing Cable End Box (Loose Wire Box) suitable fortriple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	10	Each	1256.5	12565.02
138	Supplying and fixing 5 amps to 32 amps rating single pole, 240/415 volts, "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.	400	Each	274.93	109970.74
139	do but 40 to 63 amp SP MCB	100	Each	652.46	65246.00
140	do but 5 to 32 amp DP MCB	50	Each	704.5	35225.00
140	do but 40 to 63 amp DP MCB	50	Each	1347.34	67367.00
141	do but 5 to 32 amp TP MCB	50	Each	1081.45	54072.53
142	do but 40 to 63 amp TP MCB	50	Each	1954.35	97717.50
143	do but 5 to 32 amp 4P MCB	50	Each	1318.79	65939.49
144	do but 40 to 63 amp 4P MCB	50	Each	2403.8	120190.00
145	Supplying and fixing of 06-32 amps, Icn=6kA, rating, "C" curve, DC Single Pole miniature circuit breaker suitable for inductive and resistive load in the existing MCB DB complete with			1035.25	
147	connections, testing and commissioning etc as required. do but 40 to 63 amp Icn=6kA, rating, DC SP MCB	<u>5</u> 5	Each Each	1305.93	5176.25 6529.65
147	do but 40 to 05 amp ton=6kA, rating, DC OP MCB	<u> </u>	Each	2094.74	10473.70
148	do but 40 to 63 amp Icn=6kA, rating, DC DP MCB	<u> </u>	Each	2094.74	14003.65
147	Supplying and fixing 25 amps rating, double pole, (single phase and neutral), 240 volts,	5	Each	2000.73	14003.03
150	residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.	50	Each	2177.94	108896.81
151	dobut 40 amps DP RCCB	50	Each	2837.33	141866.55

152	dobut 63 amps DP RCCB	20	Each	2923.25	58464.91
153	Supplying and fixing 40 amps rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the				
155	existing MCB DB complete with connections, testing and commissioning etc. as required.	20	Each	3423.7	68473.97
154	dobut 63 amps 4P RCCB	10	Each	3084.34	30843.36
	Supplying and fixing 2P / 4P MCB sheet steel enclosure on surface/ recess for 415 volts				
155	complete with suitable bus bar for neutral including connections, testing and commissioning				
	etc. as required.	20	Each	874.66	17493.20
	Supplying and fixing TP/4P MCCB sheet steel enclosure on surface/ recess for 415 volts				
156	MCCB upto 250Amps complete with suitable bus bar for neutral including connections,				
	testing and commissioning etc. as required.	20	Each	4959.1	99182.00
157	Supply and fixing of SPN Automatic Changeover switches with Current Limiter (ACCL) 400V,			0005.00	
	30A/9-30A capacity on board/DB's etc complete with connections in all respects.	20	Each	3335.02	66700.40
158	SITC of Automatic Changeover switch TPN, 63 Amps in existing panel chamber alongwith all	4	F oob	00004 7	C00C4 70
	acessories complete with all connections as required. SITC of Motorised Automatic Changeover/ATS switch 4 pole, 125 Amps in existing panel	1	Each	60064.7	60064.70
159	chamber alongwith all acessories complete with all connections as required.	1	Each	77849.79	77849.79
	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 250 Amps in existing panel	I	Lacii	11049.19	11049.19
160	chamber alongwith all acessories complete with all connections as required.	1	Each	101365.6	101365.62
	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 400 Amps in existing panel	•	Eddin	101000.0	101000102
161	chamber alongwith all acessories complete with all connections as required.	1	Each	127544.8	127544.82
1(2)	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 630 Amps in existing panel				
162	chamber alongwith all acessories complete with all connections as required.	1	Each	161432.3	161432.34
163	SITC of 4 Pole Power Contactors, 400 Amps in existing panel chamber alongwith all				
105	acessories complete with all connections as required.	1	Each	60111.16	60111.16
	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth,				
164	metal enclosed plug top alongwith 20 A, "C" curve, SP, MCB, in sheet steel enclosure, on				
10.	surface or in recess, with chained metal cover for the socket out let and complete with			1710.05	1710.05
	connections, testing and commissioning etc. as required.	1	Each	1740.85	1740.85
	Supplying and fixing 30 amps, 240 volts, TPN industrial type, socket, with 4 pole and earth,				
165	metel enclosed plug top along with 30 amps 'C' series, TP MCB, in sheet steel enclosure on surface or in recess, with chained metal cover for the socket out let and complete with				
	connections, testing and commissioning etc. as required.	1	Each	4410.64	4410.64
	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and	I	Lacii	4410.04	4410.04
	providing masonry enclosure/ HDPE FRP Chamber with cover plate having locking				
166	arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as				
	required.	5	Set	8024.43	40122.14
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 Meter bellow ground as strip earth	-			
167	electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as				
167	required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring				
	washer spaced at 50mm)	200	Meter	154.65	30929.27
168	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and	5	Set	14861.08	74305.42

	providing masonry enclosure/ HDPE FRP Chamber with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.				
169	Supplying and laying 25 mm X 5 mm copper strip on surface/recess as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	200	Meter	1247.91	249582.03
170	Providing and fixing 25 mm x 5 mm copper strip at 0.50 meter below the ground as strip earth electrode, including connection/termination with brass nut, bolt, spring washer etc.as required.(Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm) on surface or in recess for connection including soldering etc. as required.	200	Meter	1043.86	208772.58
171	Providing and fixing G.I. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete including soldering, clamping, CC as required	50	Meter	211.56	10578.24
172	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade upto 35 mm ² size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	20	Meter	415.61	8312.24
173	dobut above 35 mm ² and upto 95 mm ²	20	Meter	434.94	8698.86
173	dobut above 95 mm ² and upto 185 mm ²	20	Meter	453.2	9063.99
174	dobut above 185 mm ² and upto 400 mm ²	20	Meter	509.04	10180.88
175	Laying/Removal of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1	20	Weter	505.04	10100.00
176	KV grade of size upto35 mm ² direct in ground including excavation and refilling the trench				
	etc as required. but excluding sand cushioning and protective covering.	10	Meter	214.79	2147.87
177	do but 35 mm ² to 95 mm ² cable	10	Meter	233.04	2330.43
178	do but 95 mm ² to 185 mm ² cable	10	Meter	251.3	2513.00
179	do but 185 mm ² to 400 mm ² cable	10	Meter	308.22	3082.19
180	Supplying and making end termination with brass compression gland and aluminium lugs for 4 core 10 mm ² (25mm) size of PVC insulated and PVC sheathed/ XLPE aluminium				
101	conductor cable of 1.1 kV grade as required.	1	Each	288.89	288.89
181	dobut for 4 core 16 mm ² (28mm) PVC cable.	1	Each	331.85	331.85
182	dobut for 4 core 25 mm ² (28mm) PVC cable.	1	Each	338.29	338.29
183	dobut for 3½ core 35 mm²(32mm) PVC cable.	1	Each	396.28	396.28
184	dobut for 3 ½ core 50 mm²(35 mm) PVC cable	1	Each	443.53	443.53
185	dobut for 3 ½ core 70 mm²(38 mm)PVC cable	1	Each	502.6	502.60
186	dobut for 3 ¹ / ₂ core 95 mm ² (45 mm) PVC cable	1	Each	631.47	631.47
187	dobut for 3 ½ core 120 mm ² (45 mm) PVC cable	1	Each	658.32	658.32
188	dobut for 3 ½ core 150 mm ² (50 mm) PVC cable	1	Each	748.53	748.53
189	dobut for 3 1/2 core 185 mm ² (57 mm) PVC cable	1	Each	939.69	939.69
190	dobut for 3 ½ core 240 mm ² (62 mm) PVC cable				
190		1	Each	1102.93	1102.93

191	dobut for 3 1/2 core 300 mm ² (70 mm) PVC cable	1	Each	1283.35	1283.35
192	dobut for 3 1/2 core 400 mm ² (70 mm) PVC cable	1	Each	1671.04	1671.04
193	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for 4 core 16 mm ² PVC cable size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	2	Each	2328.29	4656.57
194	dobut for 4 core 25 mm ² PVC cable.	2	Each	2661.21	5322.41
195	dobut for 4 or 3 1/2 core 35 mm ² PVC cable.	2	Each	2661.21	5322.41
196	dobut for 3 ½ core 50 mm ² PVC cable	2	Each	2661.21	5322.41
197	dobut for 3 ½ core 70 mm ² PVC cable	2	Each	3611.64	7223.27
198	dobut for 3 ½ core 95 mm ² PVC cable	2	Each	3777.02	7554.04
199	dobut for 3 ½ core 120-185 mm ² PVC cable	2	Each	4873.51	9747.02
200	dobut for 3 ½ core 240 mm ² PVC cable	2	Each	5282.68	10565.35
201	dobut for 3 ½ core 300 mm ² PVC cable	2	Each	6558.51	13117.02
202	dobut for 3 ½ core 400 mm ² PVC cable	2	Each	8554.95	17109.90
203	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core 120-185 mm ² , XLPE aluminium conductor cable of 11 kV(UE) grade as required.	2	Each	16074.63	32149.26
204	dobut for 3 core 240- 300 mm ² XLPE cable	2	Each	17450.34	34900.67
205	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core 120-185 mm ² , XLPE aluminium conductor cable of 11 kV(UE) grade as required.	2	Each	21586.05	43172.11
206	dobut for 3 core 240-300 mm ² XLPE cable	2	Each	24480.3	48960.61
207	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 3 core 240-300 mm ² , XLPE aluminium conductor cable of 11 kV(UE) grade as required.	2	Each	44989.2	89978.40
208	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core 240-300 mm ² , XLPE aluminium conductor cable of 33 kV grade as required.	2	Each	76940.86	153881.71
209	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 3 core 240-300 mm ² , XLPE aluminium conductor cable of 33 kV grade as required.	2	Each	105913.4	211826.84
210	Making earth point with boring 18 Mt. deep with 80 mm dia G.I. pipe "B" class ISI. The top pipe 6 mt. length will be duly holed across the pipe at a distance of 15 cm apart in 4 rows. The each joint should be welded/ Brazing, 30 cm x 30 cm CI / HDPE FRP chamber masonary housing complete as per direction of site in charge complete.	_			
		5	Each	28496.14	142480.70

1	Supply and fixing of Chemical earthing with GI heavy earthing pipe 75 to 90 mm dia, 3 mtrs				1
	length with GI Strip 40 mm X 6 mm from top to bottom inside the pipe and pipe prefilled with				
211	growth hygroscopic gel. The work shall be completed by boring dia -100 mm, with backfill				
211	Chemical compound (50 Kg). The each joint should be welded/ brazing, 30 cm x 30 cm Cl /				
	HDPE FRP chamber complete, The Earthing shall be completed in all respect and tested on	-	F aab	40000.04	54004.00
	site for guranteed result of earth resisitance less than 1 ohms. Supply and fixing of Chemical earthing with Copper heavy earthing pipe 50 to 65 mm, length	5	Each	10326.24	51631.20
	-3 mtrs pipe with Copper Strip 40mm X 6mm from top to bottom inside the pipe and pipe				
	prefilled with growth hygroscopic gel. The work shall be completed by boring dia -100 mm,				
212	with backfill Chemical compound (50 Kg). The each joint should be welded/ brazing, 30 cm x				
	30 cm CI / HDPE FRP chamber complete, The Earthing shall be completed in all reepect				
	and tested on site for guranteed result of earth resisitance less than 1 ohms.	5	Each	12382.6	61913.00
010	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 12" (300mm) size with all fixing material,				
213	nut bolt etc. and T&P.	20	Each	701.95	14039.00
214	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 15" (380mm) size with all fixing material,				
214	nut bolt etc. and T&P.	20	Each	730.23	14604.60
215	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 18" (450mm) size with all fixing material,				
215	nut bolt etc. and T&P.	20	Each	826.18	16523.60
	SITC of Thermoplastic Cable Junction Box IP 65 Dimensions (LXBXH) 155 x 210 x 92 mm				
016	with metric knockouts for cable entry suitable for 10-16 sq.mm PVC sheathed armoured				
216	cable with 5 pole Terminal Set and one no. 5-32A SP MCB 'C' Curved for cable connections				
	fixed on support (DIN Rail) with provision of continuity of loop earthing between I/C & O/G cables as required, equivalent to Hensel Cat No.KF1616G (Make-Hensel / Siemens)	20	Each	3812.75	76255.00
	SITC of Thermoplastic polycarbonate IP65 in accordance with EN 60 529 (Dust proof, water	20	Lacii	3012.75	70255.00
	proof & weatherproof) junction box size- (300X300X195) mm shock proof, prust proof,				
	corrosion free with metric knockouts for cable entry suitable for min 25 sq.mm size PVC				
217	sheathed armoured cable with Terminal Sets for cable connections fixed on support (DIN				
	Rail) with provision of neutral bus and continuity of loop earthing between I/C & O/G cables				
	as required, equivalent to Hensel Cat no. HEN MI JB-2540-2023 Hensel. The box shall be				
	fixed on pole with suitable D clamp(s) and nut bolts etc as required.	10	Each	16588.24	165882.40
	SITC of Thermoplastic polycarbonate IP65 in accordance with EN 60 529 (Dust proof, water				
	proof & weaherproof) junction box size- (300X450X195) mm shock proof, prust proof,				
2 10	corrosion free with metric knockouts for cable entry suitable for min 25 sq.mm size PVC				
218	sheathed armoured cable with Terminal Sets for cable connections fixed on support (DIN				
	Rail) with provision of neutral bus and continuity of loop earthing between I/C & O/G cables as required, equivalent to Hensel Cat no. HEN MI JB-2540-2023 Hensel). The box shall be				
	fixed on pole with suitable D clamp(s) and nut bolts etc as required.	10	Each	22845.19	228451.90
	Disconnection, dismantalling & Shifting of old Electric panel / Feeder pillar. After	10	Lacii	22043.13	220431.30
219	dismantalling the panels to be sent to central / zonal store, as per direction of site incharge.	10	Each	1737.2	17372.00
200	Supplying and fixing of Digital Ammeter equivalent to Make: Secure & Model DPM I310 in				
220	existing panel/DB complete with all connections, testing and commissioning etc as required.	2	Each	1990.71	3981.42
221	Supplying and fixing of Digital Voltmeter equivalent to Make: Secure & Model DPM V310 in	2	Each	1990.71	3981.42

	existing panel/DB complete with all connections, testing and commissioning etc as required.				
	Supplying and fixing of Digital Multifunction Meter equivalent to Make: Secure & Model Elite				
222	102 in existing panel/DB complete with all connections, testing and commissioning etc as				
	required.	2	Each	5443.9	10887.80
223	SITC of 100/5- 600/5 CT burdan 15 VA, tap wound and ring type CL -1 complete with all				
223	connections including all mounting accessories in all respect.	5	Each	671.65	3358.25
224	SITC of 800/5- 1200/5 CT tap wound and ring type CL -1 complete with all connections				
224	including all mounting accessories in all respect.	5	Each	916.07	4580.35
225	SITC of LED Indicator 230V, AC complete with all connections including all mounting				
223	accessories in all respect.	5	Each	207.05	1035.25
	Removal / fixing of off size of perforated cable trays in convenient section, removel from				
226	joining with connectors, which suspended from the ceiling with M.S suspenders including			10100	
	bolt & nut suspenders etc as required. complete in all respect.	20	Meter	194.93	3898.60
227	Cleaning of Ceiling/Wall/ Pedestal/Cabin/ Exhaust/ Frseh Air Fan installed at several				
227	locations in different departments /residences /offices by using own ladder and T&P as			05.05	1000 50
	required for proper completion of work.	50	Each	85.85	4292.50
220	Making hole for installation of exhaust fan of size upto 450 mm sweep by demolishing brick				
228	work manually/by mechanical means including disposal of malba within 50 meters lead and	10	Fach	205 02	0050 00
	making good the wall by plastering etc. as required.	10	Each	265.63	2656.30
229	SITC of desert air- cooler strong air delivery (3400 CMH approx) with minimum three speed	0	Fach	10100.00	20207.00
020	operation, fully collapsible louvres complete equivalent to orient snowbreeze slim 55	2	Each	10198.98	20397.96
230	SITC of Pedestal fan 400 mm Sweep revolving type with speed regulator.	2	Each	2685.59	5371.18
231	SITC of Wall mounting fan 400 mm Sweep revolving type with speed regulator.	10	Each	2453.29	24532.90
	SITC of 240 V, 150 MM sweep PVC body exhaust fan in existing opening and making good				
232	finish with plaster and all masonary work, connection with 1.5 sqmm PVC insulated, copper	4.0		1510.01	
	conductor, single core etc.	10	Each	1549.34	15493.40
000	SITC of 240 V, 200 MM sweep PVC body exhaust fan in existing opening and making good				
233	finish with plaster and all masonary work, connection with 1.5 sqmm PVC insulated, copper	10	E a a h	4007.00	40070 00
	conductor, single core etc.	10	Each	1887.69	18876.90
234	SITC of 240 V, 250 MM sweep PVC body exhaust fan in existing opening and making good				
234	finish with plaster and all masonary work, connection with 1.5 sqmm PVC insulated, copper conductor, single core etc.	10	Each	2003.84	20038.40
	SITC of 240 V, 225-230 MM sweep, light duty metallic body exhaust fan in existing opening	10	Each	2003.04	20030.40
235	and making good finish the damage with plaster and all masonary work , connection with 1.5				
233	sqmm PVC insulated, copper conductor, single core etc.	5	Each	1790.73	8953.65
	SITC of 240 V, 300 MM sweep, light duty metallic body exhaust fan in existing opening and	5	Lacii	1730.73	0900.00
236	making good finish the damage with plaster and all masonary work, connection with 1.5				
230	sqmm PVC insulated, copper conductor, single core etc.	5	Each	2059.39	10296.95
	SITC of 240 V, 375-380 MM sweep, 900 RPM heavy duty exhaust fan in existing opening	0	Laon	2000.00	.0200.00
237	including making good finish the damage with plaster and all masonary work, connection				
_ 0,	with 1.5 sqmm PVC insulated, copper conductor, single core etc.	5	Each	4178.37	20891.85

238	SITC of 240 V, 300 MM sweep, 900 RPM heavy duty exhaust fan in existing opening including making good finish the damage with plaster and all masonary work, connection				
200	with 1.5 sqmm PVC insulated, copper conductor, single core etc.	5	Each	3695.59	18477.95
239	SITC of 240 V, 450 MM sweep, 900 RPM heavy duty exhaust fan in existing opening including making good finish the damage with plaster and all masonary work, connection				
	with 1.5 sqmm PVC insulated, copper conductor, single core etc.	10	Each	5054.04	50540.40
240	Supply, Installation, Testing and Commissioning of 900 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, Service Value not less then 5.3, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance minimum 2 mega ohm,suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	5	Each	3453.19	17265.95
241	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, Service Value not less then 7, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance minium 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	100	Each	3453.19	345319.00
242	Supply, Installation, Testing and Commissioning of 1400 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, Service Value not less then 7, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance minimum 2 mega ohm,suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	20	Each	3660.24	73204.80
243	Providing and fixing G.I. pipes 15/16mm dia (Medium B class) complete with G.I. fittings				
244	including trenching and refilling etc. Supplying and embedding 32 mm dia G.I. pipe (medium B class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required	<u>10</u> 10	Meter	342.54 563.81	3425.42 5638.15
245	Supplying and embedding 40 mm dia G.I. pipe (medium B class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required	10	Meter	632.55	6325.47
246	Providing, laying and fixing B class medium ISI 50 mm dia G.I. pipe in ground complete with G.I. fittings including boring/ trenching (75 cm deep) and re-filling etc as required	10	Meter	810.39	8103.94
247	dobut G.I. Pipe 80 mm dia.	6	Meter	1107.64	6645.84
248	dobut G.I. Pipe 100 mm dia.	6	Meter	1939.52	11637.14
249	Supplying and installing of 100 mm width X 50 mm depth X 1.6 mm thickness perforated painted with powder coating M.S. cable trays with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.	50	Meter	583.15	29157.28
250	do150 mm width X 50 mm depth X 1.6 mm thickness	50	Meter	648.66	32432.78
250	do200 mm width X 50 mm depth X 1.6 mm thickness	5	Meter	739.94	3699.70

252	do450 mm width X 50 mm depth X 2.0 mm thickness	5	Meter	1221.06	6105.31
253	SITC of LED light fitting 600mm length minimum 1000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with acessories and prewired with both side end cap equivalent to Havells Cat no.				
	LUMILINE+BS10WLED865SPCSS. Minimum Two years warranty should be provided.	50	Each	650.44	32522.00
254	SITC of LED light fitting 1200mm length minimum 2000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with acessories and prewired with both side end cap equivalent to havells cat no. LUMILINE+BS20WLED865SPCSS. Minimum Two years warranty should be provided.	500	Each	894.86	447430.00
255	SITC of suspended mounting LED Light fitting minimum lumen 2700 including driver equivalent to Havells cat no. DESTG250LP/S25WLED857SWH1130 with End Cap & Suspension kit as required complete all connections.	10	Each	6875.07	68750.70
256	SITC of Round recess/surface mounted LED slim/sleek down light fitting with LED Driver minimum 1000 lumen suitable for Armstrong/Grid ceiling equvilant to Havells cat no. EDGEPRONEORDDLR 12WLED857S. Minimum Two years warranty should be provided				
	and certificate should be endorsed by OEM or his representative	10	Each	1602.87	16028.70
257	SITC of Round recess/surface mounted LED slim/sleek down light fitting with LED driver minimum 2000 lumen suitable for Armstrong/Grid ceiling equvilant to Havells cat no. EDEGPRONEORDDLR18WLED8587S. Minimum Two years warranty should be provided and certificate should be endorsed by OEM or his representative	20	Each	2055.35	41107.00
258	SITC of 1'X1' square recess/surface mounted LED light fitting with minimum lumen 1600 soft-light and glare free symmetrical illumination and all accessories pre-wired including connection complete in all respect equivalent to Havells cat No.PLUTO1X1PLR/PLS15WLED857S. Minimum Two years warranty should be provided and certificate should be endorsed by OEM or his representative	10	Each	2826.99	28269.90
259	SITC of 2'x2' fully diffused recess/surface mounting LED luminaire, minimum 3600 lumen as light source, suitable for Armstrong/Grid Ceiling complete as required includung all connections equivalent to Havells no. VENUSNEO2X2PLR36WLED857STTR. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	100	Each	4576.31	457631.00
260	SITC of LED street light made up of pressure die cast aluminium housing with toughened glass / polycarbonate covers and individual high power LEDs with secondary optics, minimum 2500 lumen, 3600/5700 K, warm/cool as required. IP66 protection, impact resistance of IK07 & 10 KV external SPD on pole. equivalent to Havells Cat No.ENDURASUNDOWNSL25WLED765PASYBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.				
		5	Each	2769.42	13847.10

261	SITC of LED street light made up of pressure die cast aluminium housing with toughened glass / polycarbonate covers and individual high power LEDs with secondary optics, minimum 4000 lumen, 3600/5700 K, warm/cool as required. IP66 protection, impact resistance of IK07 & 10 KV external SPD on pole, equivalent to Havells Cat No.ENDURASUNDOWNSL40WLED765PASYBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	4139.99	20699.95
262	SITC of LED street light made up of pressure die cast aluminium housing with toughened glass / polycarbonate covers and individual high power LEDs with secondary optics, minimum 7000 lumen, 3600/5700 K, warm/cool as required. IP66 protection, impact resistance of IK07 & 10 KV external SPD on pole, equivalent to Havells Cat No.ENDURASUNDOWNSL70WLED765PASYBOTG. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	6038.79	30193.95
263	SITC of LED Bollard light 5700k, IP65, 8-10 Watt equivalent to LED Havells Cat No. CONEBLS8WLED857PSYMTOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	4703.57	23517.85
264	Supply and fixing of LED post top IP 65 latern spun aluminium landscape luminaire, symmetrical light distribution, clear/ opal acrylic diffuser, stainless steel hardware, 15 watt includung connections equivalent to Havells Cat No.RUBYMINPT15W LED757PSYMTOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	5222.71	26113.55
265	SITC of LED Bulkhead complete with connections as required equivalent to Havells Cat No. HEXAFT10WWLED857SSYMBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	1773.56	8867.80
266	SITC of recess mounting LED strip including driver equivalent to Havells cat no. FLEXISTRIP5MIP2024V/ 1ALED840MOD with Driver Cat No. CVDRIVER24V1A. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	342.39	1711.95
267	SITC of recess mounting LED luminaire, minimum 2400 lumen as light source, suitable for POP/Gypsum Ceiling complete as required includung all connections equivalent to Havells no. DESTG250LR36W LED857SWH1130. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	7369.97	36849.85
268	SITC of recess mounting LED Wall washer luminaire, minimum 2400 lumen as light source, suitable for POP/Gypsum Ceiling complete as required includung all connections equivalent to Havells no. UNECOSNOOTDLR25WLED857S36. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	3783.46	18917.30
269	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life, made up of aluminuim pressure die cast housing with toughened glass / polycarbonate cover, minimum 5000 lumen output and individual high power LEDs with secondary optics, IP66 protection, impact resistance of IK07 & 10 KV external SPD equivalent to Havells Cat No. JETAGANZAFLS50WLED757P60DTOTG along with mounting brackets assembly. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	4646	23230.00

270	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life, made up of aluminuim pressure die cast housing with toughened glass / polycarbonate cover, minimum 10000 lumen output and individual high power LEDs with secondary optics, IP66 protection, impact resistance of IK07 & 10 KV external SPD equivalent to Havells Cat No. JETAQUANTOPLUSFLP100WLED757SYM along with mounting brackets assembly. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	5	Each	7687.11	38435.55
271	SITC of 120 watt LED midbay / highbay luminair with aluminium heat sink for efficient heat dissipation and highly effective optics for maximum illumination for varied industrial applications, minimum 12000 Lumens, equivalent to Havell's Cat No. GAZELLAHBP120WLED857PBOTG along with mounting brackets assembly. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.				
		5	Each	10816.09	54080.45
272	SITC of Sensor LED tube fitting equivalent to Havells Cat No. LUMILINESMART20WLED865PCWH with built in motion sensor and necessary arrangement to reduce to 30% in case of no occupancy or motion but instantly go to full light i.e. 18-20 watt as soon as some motion observed, complete with connection as required. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	200	Each	1536.21	307242.00
273	SITC of 3.00 Metre HDG Octagonal Pole with Top Dia 70 mm, Bottom Dia 130 mm & Sheet Thickness 3 mm ,base plate 200 x 200 x 12 mm alongwith 0.5 Metre single arm bracket ,suitable for 70mm Top complete with suitable size of the foundation bolt etc. as required.	2	Each	16938.71	33877.42
274	SITC of 6.00 Metre HDG Octagonal Pole with Top Dia 70 mm, Bottom Dia 130 mm & Sheet Thickness 3 mm, base plate 200 x 200 x 12 mm alongwith 0.5 Metre single arm bracket ,suitable for 70mm Top complete with suitable size of the foundation bolt etc. as required.	2	Each	22476.54	44953.08
275	Supply and Fixing of M.S. tubular pole SP-5, 7.5 Meter length with suitable canopy and cross arm single/ double as required. The pole shall be grouted in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling as required.	2	Each	21495.83	42991.66
276	Supply and Fixing of M.S. tubular pole SP-32, 9.0 Meter length with suitable canopy and cross arm single/ double as required. The pole shall be grouted in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling as required.	2	Each	31268.59	62537.18
277	SITC of Emergency LED tube fitting equivalent to wipro Cat No. Imperia Emergency LE23 EM with surface/ pendent mounted IP65 high efficency technical emergency liner luminaire up to 3 hours of battery backup with maximum 10% output. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.				
		10	Each	11200.9	112009.00
278	Installation / Dismantling of Geyser rating 25 -50Ltrs including cartage upto store /central store as per instruction of site-in-charge.	21.27	Each	502.98	10696.37
279	SITC of Water Heater(Geyser) rating of 25 ltrs 5 star complete with all connections.	10.63	Each	9611.16	102195.37
280	SITC of Water Heater(Geyser) rating of 35 Itrs 3-5 star complete with all connections.	5.32	Each	14119.8	75067.92
281	SITC of Water Heater(Geyser) rating of 50 ltrs 3-5 star complete with all connection	5.32	Each	14119.8	75067.92
282	SITC of Instant Water Heater(Geyser) rating of 3 Itrs complete with all connection	2.13	Each	5012.63	10659.86
283	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	50	Meter	2269.22	113461.02
284	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar,bent to shape with hooked ends in R.C.C. slabs or beams during laying,including painting the exposed portion of loop, all as per standard design complete.	5	Each	240.31	1201.53
285	Providing and fixing circular / hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for properbonding, top lid shall be screwed into the cast iron / M.S. sheet box by means of 3.3 mm dia roundheaded screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape asper standard drawing.				
		2	Each	234.62	469.23

286	Dismantling of ceiling fan and painting the same with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and		E h	000.0	4404.40
287	replacing the damaged rubber reel, nuts and bolts with washers and safety pins, reinstalling the same as required. Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 mm ² FRLS PVC insulated, copper conductor, single core cable etc as required after removel the old if	5	Each	280.3	1401.48
207	required.	5	Each	228.75	1143.74
288	Installation of exhaust fan up to 450 mm sweep in the existing opening, including making good the damage, connection, testing, commissioning etc after removal the old, as required.	5	Each	483.27	2416.35
289	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc directly on ceiling/ wall, including connection with 1.5 mm ² FRLS PVC insulated, copper conductor, single core cable and earthing etc after removal the old, as required.	2	Each	221.23	442.46
290	Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required.	5	Each	9314.22	46571.10
291	Providing and making of steel / rail pole collar with cement concrete (1 cement : 3 coarse sand : 6 stone aggregate 20mm) of specified size and shape including form work, plastering if required, curing etc. as required (volume of pole/pipe not to be deducted).	5	Cu. M	8736.44	43682.22
292	Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.	5	Each	2858.81	14294.05
293	Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 Meters.				
	-	5	Cu. M	702.35	3511.76
294	Earth work in excavation in soft soil by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m inwidth or 10 sqm on plan), including dressing of sides and ramming ofbottoms, lift upto 1.5 m, including getting out the excavated soil anddisposal of surplus excavated soil as directed, within a lead of 50 m.	4	Cu.M	276.78	1107.11
295	Providing Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and			7583.72	
296	plinth in Cement mortar 1:6 (1 cement : 6 coarse sand) 12 mm Cement Plaster of Mix 1:6 (1 Cement : 6 Fine Sand)	<u>4</u> 5	Cu. M Sq. m	354.45	<u> </u>
290	Demolishing brick work in mortar manually/ by mechanical means includingstacking of serviceable material and disposal of unserviceable materialwithin 50 Meters lead as per	-			
	direction of Engineer-in-charge.	4	Cu.M.	2190.61	8762.44
298	Dismantling doors, windows and clerestory windows (steel or wood)shutter including chowkhats, architrave, holdfasts etc. complete andstacking within 50 Meters lead of area beyond 3 sq.meters	5	Each	534.57	2672.87
299	Demolishing R.C.C. work manually/ by mechanical means includingstacking of steel bars and disposal of unserviceable material within50 Meters lead as per direction of Engineer - in- charge	5	Cu.M.	3776.04	18880.22
300	Painting with synthetic enamel paint of approved brand andmanufacture to give an even shade Two or more coats on new work	5	Sq. m	240.57	1202.86
301	Providing and applying white cement based putty of average thickness1 mm, of approved brand and manufacturer, over the plastered wallsurface to prepare the surface even and				
	smooth complete	5	Sq. m	165.93	829.64
302	Re-lettering with black Japan paint of approved brand and manufacture.	600	Per letter	6.54	3923.58

			per cm height		
303	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	40	P/Kg	142.16	5686.53
304	Disposal of building rubbish / malba / similar unserviceable, dismantledor waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or asapproved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	50	Cu.M.	283.46	14173.23
305	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	100	sqm	359.66	35966.12
306	Spray Painting of double coat of Electric Panel/Feeder after removal of old layer of paint, rusting etc. and providing the red oxide paint over the surface uniformly if required before spray painting including etc. The work shall be completed in all respect including repair including repair by welding/Denting and black paint on base chanel and MS frame as required (Only painted surface shall be measured for payment).	1000	sq-ft	83.83	83830.00
307	Painting of electric pole and number making if required (8.5mtr. to 14 mtr. long pole) with 1 coat of aluminium paint over redoxide primer after proper cleaning of rusted surface as required complete in all respects.	40	Each	1076.66	43066.40
308	Painting of electric pole and number making if required (8.5mtr. to 14 mtr. long pole) with 1 coat of aluminium paint after proper cleaning of rusted surface as required complete in all respects.	40	Each	833.25	33330.00
309	Painting of electric pole and number making if required (5 mtr. to 8 mtr. long pole) with 1 coat of aluminium paint over redoxide primer after proper cleaning of rusted surface as required complete in all respects.	40	Each	804.97	32198.80
310	Painting of electric pole and number making if required (5 mtr. to 8 mtr. long pole) with 1 coat of aluminium paint after proper cleaning of rusted surface as required complete in all respects.	40	Each	447.43	17897.20
311	Painting of electric pole and number making if required (2.4 mtr. to 4.5 mtr. long pole) with 1 coat of aluminium paint over redoxide primer after proper cleaning of rusted surface as required complete in all respects.	40	Each	327.24	13089.60
312	Painting of electric pole and number making if required (2.4 mtr. to 4.5 mtr. long pole) with 1 coat of aluminium paint after proper cleaning of rusted surface as required complete in all respects.	40	Each	229.27	9170.80

313	SITC of factory fabricated 1.6 mm CRCA sheet, metal clad, dust and vermin proof wall mounted single door MS Box as required with size 400 x 300 x 150 mm duly powder coated spray painted fitted with 220 volt AC Relay, Push button with NO + NC elements, on indication and Hooter etc as required for One lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	5807.5	5807.50
314	SITC of factory fabricated 1.6 mm CRCA sheet, metal clad, dust and vermin proof wall mounted single door MS Box as required with size 400 x 300 x 150 mm duly powder coated spray painted fitted with 220 volt AC Relay, Push button with NO + NC elements, on indication and Hooter etc as required for Two lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	7070	7070.00
315	SITC of factory fabricated 1.6 mm CRCA sheet, metal clad, dust and vermin proof wall mounted single door MS Box as required with size 400 x 300 x 150 mm duly powder coated spray painted fitted with 220 volt AC Relay, Push button with NO + NC elements, on indication and Hooter etc as required for Three lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	8332.5	8332.50
316	SITC of factory fabricated 1.6 mm CRCA sheet, metal clad, dust and vermin proof wall mounted single door MS Box as required with size 400 x 300 x 150 mm duly powder coated spray painted fitted with 220 volt AC Relay, Push button with NO + NC elements, on indication and Hooter etc as required for Four lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	9595	9595.00
317	Supply and laying of copper conductor, XLPE insulated, Un-armuored, PVC sheathed cable, 1100V grade, 2 core 1.5 mm ² at a depth of 750mm below ground level including excavation and refling the trench over a cushion of 75mm thick sand alround and protected with burnt bricks on sides and on top as directed by the Engineer-Incharge, complete in all respects. The armouring of the cable shall be properly connected with the earth conductor by clamps etc. The cable shall be laid by boring the road as required and compaction of soil & repairing of surface in prior shape shall be done properly.	10	meter	481.77	4817.70
318	Do But 2 core 1.5 sqmm copper armuored cable.	10	meter	513.08	5130.80
319	Do But 3 core 1.5 sqmm copper armuored cable.	10	meter	539.34	5393.40
320	Do But 4 core 1.5 sqmm copper armuored cable.	10	meter	574.69	5746.90
321	Do But 6 core 1.5 sqmm copper armuored cable.	300	meter	649.43	194829.00
322	Do But 10 core 1.5 sqmm copper armuored cable.	10	meter	810.02	8100.20
323	Do But 3 core 2.5 sqmm copper armuored cable.	10	meter	609.03	6090.30
324	Do But 4 core 4 sqmm copper armuored cable.	10	meter	776.69	7766.90
325	Do But 2 core 6 sqmm copper un-armuored cable.	10	meter	666.6	6666.00
326	Do But 4 core 6 sqmm copper armuored cable.	10	meter	936.27	9362.70
327	Do But 4 core 10 sqmm copper armuored cable.	10	meter	1283.71	12837.10
328	Do But 4 core 16 sqmm copper armuored cable.	10	meter	1698.82	16988.20
329	Do But 3.5 core 2.5 sqmm Aluminium armuored cable.	10	meter	492.88	4928.80
330	Do But 3 core 4 sqmm Aluminium armuored cable.	10	meter	510.05	5100.50
331	Do But 3 core 6 sqmm Aluminium armuored cable.	10	meter	539.34	5393.40

332	Do But 3 core 10 sqmm Aluminium armuored cable.	100	meter	580.75	58075.00
333	Do But 3.5 core 25 sqmm Aluminium armuored cable.	10	meter	687.81	6878.10
334	Do But 3.5 core 50 sqmm Aluminium armuored cable.	10	meter	900.92	9009.20
335	Do But 3.5 core 70 sqmm Aluminium armuored cable.	10	meter	1073.63	10736.30
336	Do But 3.5 core 120 sqmm Aluminium armuored cable.	100	meter	1428.14	142814.00
337	Do But 3.5 core 185 sqmm Aluminium armuored cable.	10	meter	1905.87	19058.70
338	Do But 4 core 10 sqmm Aluminium armuored cable.	100	meter	606	60600.00
339	Do But 4 core 16 sqmm Aluminium armuored cable.	100	meter	648.42	64842.00
340	Do But 4 core 25 sqmm Aluminium armuored cable.	10	meter	705.99	7059.90
341	Do But 4 core 35 sqmm Aluminium armuored cable.	10	meter	805.98	8059.80
342	Do But 4 core 50 sqmm Aluminium armuored cable.	10	meter	947.38	9473.80
343	Do But 4 core 70 sqmm Aluminium armuored cable.	10	meter	1141.3	11413.00
344	Do But 4 core 95 sqmm Aluminium armuored cable.	10	meter	1336.23	13362.30
345	Do But 4 core 120 sqmm Aluminium armuored cable.	100	meter	1575.6	157560.00
346	Do But 4 core 150 sqmm Aluminium armuored cable.	10	meter	1796.79	17967.90
347	Do But 4 core 185 sqmm Aluminium armuored cable.	10	meter	2105.85	21058.50
348	Do But 4 core 240 sqmm Aluminium armuored cable.	100	meter	2707.81	270781.00
349	Do But 4 core 300 sqmm Aluminium armuored cable.	10	meter	3288.56	32885.60
350	Do But 4 core 400 sqmm Aluminium armuored cable.	10	meter	4050.1	40501.00
351	Supply and laying of Copper conductor, XLPE insulated, Un-armoured, PVC sheathed cable, 1100V grade, 2 core 1.5 mm2 on existing RCC / HUME / METAL Pipe. of suitable size or as directed by the Engineer-In-charge, complete in all respects. The armouring of the cable shall be properly connected with the earth conductor as required etc.	10	motor	128.27	1282.70
352	Do But 3 core 1.5 sqmm Copper armuored cable.	10	meter meter	185.84	1858.40
353	Do But 4 core 1.5 sqmm Copper armuored cable.	10	meter	221.19	2211.90
354	Do But 6 core 1.5 sqmm Copper armuored cable.	300	meter	295.93	88779.00
355	Do But 10 core 1.5 sqmm Copper armuored cable.	10	meter	456.52	4565.20
356	Do But 3 core 2.5 sqmm Copper armuored cable.	10	meter	255.53	2555.30
357	Do But 4 core 4 sqmm Copper armuored cable.	10	meter	423.19	4231.90
358	Do But 2 core 6 sqmm Copper armuored cable.	10	meter	313.1	3131.00
359	Do But 4 core 6 sqmm Copper Un-armuored cable	10	meter	582.77	5827.70
360	Do But 4 core 10sqmm Copper armuored cable.	10	meter	930.21	9302.10
361	Do But 4 core 16 sqmm Copper armuored cable.	10	meter	1345.32	13453.20
362	Do But 3 core 2.5 sgmm Aluminium armuored cable.	10	meter	139.38	1393.80
363	Do But 3 core 4 sgmm Aluminium armuored cable.	10	meter	156.55	1565.50
364	Do But 3 core 6 sqmm Aluminium armuored cable.	10	meter	185.84	1858.40
365	Do But 3 core 10 sqmm Aluminium armuored cable.	100	meter	227.25	22725.00
366	Do But 3.5 core 25 sqmm Aluminium armuored cable.	10	meter	334.31	3343.10

367	Do But 3.5 core 50 sqmm Aluminium armuored cable.	10	meter	584.79	5847.90
368	Do But 3.5 core 70 sqmm Aluminium armuored cable.	10	meter	722.15	7221.50
369	Do But 3.5 core 120 sqmm Aluminium armuored cable.	100	meter	1096.86	109686.00
370	Do But 3.5 core 185 sqmm Aluminium armuored cable.	10	meter	1592.77	15927.70
371	Do But 4 core 10 sqmm Aluminium armuored cable.	100	meter	252.5	25250.00
372	Do But 4 core 16 sqmm Aluminium armuored cable.	100	meter	294.92	29492.00
373	Do But 4 core 25 sqmm Aluminium armuored cable.	10	meter	352.49	3524.90
374	Do But 4 core 35 sqmm Aluminium armuored cable.	10	meter	452.48	4524.80
375	Do But 4 core 50 sqmm Aluminium armuored cable.	10	meter	595.9	5959.00
376	Do But 4 core 70 sqmm Aluminium armuored cable.	10	meter	789.82	7898.20
377	Do But 4 core 95 sqmm Aluminium armuored cable.	10	meter	984.75	9847.50
378	Do But 4 core 120 sqmm Aluminium armuored cable.	100	meter	1227.15	122715.00
379	Do But 4 core 150 sqmm Aluminium armuored cable.	10	meter	1448.34	14483.40
380	Do But 4 core 185 sqmm Aluminium armuored cable.	10	meter	1757.4	17574.00
381	Do But 4 core 240 sqmm Aluminium armuored cable.	100	meter	2364.41	236441.00
382	Do But 4 core 300 sqmm Aluminium armuored cable.	10	meter	2945.16	29451.60
383	Do But 4 core 400 sqmm Aluminium armuored cable.	10	meter	3706.7	37067.00
384	Supply and laying of Copper conductor, XLPE insulated, Un-armoured, PVC sheathed cable, 1100V grade, 2 core 1.5 mm2 on existing cable tray with M.S. clamps etc. of suitable size or as directed by the Engineer-In-charge, complete in all respects. The armouring of the cable				
	shall be properly connected with the earth conductor as required etc.	10	meter	136.35	1363.50
385	Do But 2 core 1.5 sqmm Copper armuored cable.	10	meter	167.66	1676.60
386	Do But 3 core 1.5 sqmm Copper armuored cable.	10	meter	193.92	1939.20
387	Do But 4 core 1.5 sqmm Copper armuored cable.	10	meter	229.27	2292.70
388	Do But 6 core 1.5 sqmm Copper armuored cable.	300	meter	304.01	91203.00
389	Do But 10 core 1.5 sqmm Copper armuored cable.	10	meter	464.6	4646.00
390	Do But 3 core 2.5 sqmm Copper armuored cable.	10	meter	263.61	2636.10
391	Do But 4 core 4 sqmm Copper armuored cable.	10	meter	431.27	4312.70
392	Do But 2 core 6 sqmm Copper armuored cable.	10	meter	321.18	3211.80
393	Do But 4 core 6 sqmm Copper armuored cable.	10	meter	590.85	5908.50
394	Do But 4 core 10 sqmm Copper armuored cable.	10	meter	938.29	9382.90
395	Do But 4 core 16 sqmm Copper armuored cable.	10	meter	1353.4	13534.00
396	Do But 3 core 2.5 sqmm Aluminium armuored cable.	10	meter	147.46	1474.60
397	Do But 3 core 4 sqmm Aluminium armuored cable.	10	meter	164.63	1646.30
398	Do But 3 core 6 sqmm Aluminium armuored cable.	10	meter	193.92	1939.20
399	Do But 3 core 10 sqmm Aluminium armuored cable.	10	meter	235.33	2353.30
400	Do But 4 core 10 sqmm Aluminium armuored cable.	100	meter	260.58	26058.00
401	Do But 4 core 16 sqmm Aluminium armuored cable.	100	meter	303	30300.00

402	Do But 4 core 25 sqmm Aluminium armuored cable.	10	meter	360.57	3605.70
403	Do But 4 core 35 sqmm Aluminium armuored cable.	10	meter	460.56	4605.60
404	Do But 4 core 50 sqmm Aluminium armuored cable.	10	meter	631.25	6312.50
405	Do But 4 core 70 sqmm Aluminium armuored cable.	10	meter	825.17	8251.70
406	Do But 4 core 95 sqmm Aluminium armuored cable.	10	meter	1020.1	10201.00
407	Do But 4 core 120 sqmm Aluminium armuored cable.	100	meter	1265.53	126553.00
408	Do But 4 core 150 sqmm Aluminium armuored cable.	10	meter	1486.72	14867.20
409	Do But 4 core 185 sqmm Aluminium armuored cable.	10	meter	1795.78	17957.80
410	Do But 4 core 240 sqmm Aluminium armuored cable.	100	meter	2415.92	241592.00
411	Do But 4 core 300 sqmm Aluminium armuored cable.	10	meter	2996.67	29966.70
412	Do But 4 core 400 sqmm Aluminium armuored cable.	10	meter	3758.21	37582.10
413	Do But 3.5 core 25 sqmm Aluminium armuored cable.	10	meter	342.39	3423.90
414	Do But 3.5 core 50 sqmm Aluminium armuored cable.	10	meter	584.79	5847.90
415	Do But 3.5 core 70 sqmm Aluminium armuored cable.	10	meter	757.5	7575.00
416	Do But 3.5 core 120 sqmm Aluminium armuored cable.	100	meter	1135.24	113524.00
417	Do But 3.5 core 185 sqmm Aluminium armuored cable.	10	meter	1631.15	16311.50
418	Painting and Lettering of portion of Cable route marker apprearing above the ground level complete with providing and applying white cement based putty to prepare the surface even and smooth as required. (Color shade of the paint and lettering shall be as directed by the EIC) Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor/wall mounted/ recessed/ surface feeder pillar / Panel double/ Single door , 150-200 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. Ampere meter, Volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.) as required. The feeder pillar/ panel shall have nonhygroscopic supports with detachable side with hinge and	20	Each	465.61	9312.20
420	locking. The panel/ feeder pillar should be made with 1.6 CRCA sheet. The panel shall be comprised of indicator and feeder nomenclature (if required) as per direction of site-in- charge. Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor/wall mounted/ recessed/ surface feeder pillar / Panel double/ Single door , 200- 250 mm depth duly powder coated spray painted with suitable Busbar up to 250 Amp capacity as required and separate chamber for instruments (e.g. Ampere meter, Volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.) as required. The feeder pillar/ panel shall have nonhygroscopic supports with detachable side with hinge and locking. The panel/ feeder pillar should be made with 1.6 CRCA sheet. The panel shall be comprised of indicator and	20	sq-ft	2347.24	46944.80
	feeder nomenclature (if required) as per direction of site-in-charge.	20	sq-ft	2463.39	49267.80

421	Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor mounted 500A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar single/ double door 400 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.). The feeder pillar/ panel shall have 500Amp, 415V TPN electrolyte aluminium bus bar as per IS 8623 insulated with heat shrink sleeve and mounted on nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables with connection as required. The feeder pillar should be made with 2 mm CRCA sheet. The feeder pillar should be fixed on M.S. channel 75mm X 40mm X 6mm size and mounted on M.S. angle iron 50mm X 50mm X 5mm size frame 450mm height with cross support completed as per direction of site in charge. The panel shall be comprised of indicator and feeder nomenclature as per direction of site-in-charge.	20	sq-ft	5011.62	100232.40
422	Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor mounted 500A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar single/ double door 600 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.). The feeder pillar/ panel shall have 500Amp, 415V TPN electrolyte aluminium bus bar as per IS 8623 insulated with heat shrink sleeve and mounted on nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables with connection as required. The feeder pillar should be made with 2 mm CRCA sheet. The feeder pillar should be fixed on M.S. channel 75mm X 40mm X 6mm size and mounted on M.S. angle iron 50mm X 50mm X 5mm size frame 450mm height with cross support completed as per direction of site in charge. The panel shall be comprised of indicator and feeder nomenclature as per direction of site-in-charge.	20	sq-ft	5698.42	113968.40
423	Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor mounted 800A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar single/ double door 400 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.). The feeder pillar/ panel shall have 500Amp, 415V TPN electrolyte aluminium bus bar as per IS 8623 insulated with heat shrink sleeve and mounted on nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables with connection as required. The feeder pillar should be made with 2 mm CRCA sheet. The feeder pillar should be fixed on M.S. channel 75mm X 40mm X 6mm size and mounted on M.S. angle iron 50mm X 50mm X 5mm size frame 450mm height with cross support completed as per direction of site in charge. The panel shall be comprised of indicator and feeder nomenclature as per direction of site-in-charge.	20	sq-ft	5568.13	111362.60

428 429	C/O (Fault) current setting range 30mAmp- 30Amp equivalent to L&T make & cat no. 17K726QF4N complete with making suitable size cut out including mounting acessories and all connections as required. SITC of Din Rail Mounted Earth Leakage Relay 220-415VAC, Mannual/ Auto reset, current setting range 30mAmp- 30Amp equivalent to L&T make & cat no. 17G745GF2/ 17G745KF2, complete with mounting acessories and all connections as required.	1	Each Each	3786.49 3472.38	<u>3786.49</u> 3472.38
427	SITC of mould case CBCT rectangular size 300X50mm, current setting range 30 mAmp- 30 Amp equivalent to L&T make & cat no. 17H9NNWN0, complete with mounting acessories and all connections as required. SITC of Panel Mounted Earth Leakage Relay (ELR) 240-415VAC/DC, 1 C/O (Pre Alarm) +1	1	Each	7643.68	7643.68
426	SITC of mould case CBCT oval/ circular size 92 mm minimum ID (Internal Dia), current setting range 30 mAmp- 30 Amp equivalent to L&T make & cat no. 17H7NNTN3, complete with mounting acessories and all connections as required.	1	Each	1525.1	1525.10
425	Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor mounted 1600A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar single/ double door 1000 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.). The feeder pillar/ panel shall have 500Amp, 415V TPN electrolyte aluminium bus bar as per IS 8623 insulated with heat shrink sleeve and mounted on nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables with connection as required. The feeder pillar should be made with 2 mm CRCA sheet. The feeder pillar should be fixed on M.S. channel 75mm X 40mm X 6mm size and mounted on M.S. angle iron 50mm X 50mm X 5mm size frame 450mm height with cross support completed as per direction of site in charge. The panel shall be comprised of indicator and feeder nomenclature as per direction of site-in-charge.	20	sq-ft	6312.5	126250.00
424	Supply, erection, testing and commissioning of factory fabricated metal clad dust and vermin proof- floor mounted 800A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar single/ double door 600 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency meter, KWH meter etc.) & switch gears (like I/C & O/G MCB's/MCCB's, C/o switch with extentionable/rotary handle etc.). The feeder pillar/ panel shall have 500Amp, 415V TPN electrolyte aluminium bus bar as per IS 8623 insulated with heat shrink sleeve and mounted on nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables with connection as required. The feeder pillar should be made with 2 mm CRCA sheet. The feeder pillar should be fixed on M.S. channel 75mm X 40mm X 6mm size and mounted on M.S. angle iron 50mm X 50mm X 5mm size frame 450mm height with cross support completed as per direction of site in charge. The panel shall be comprised of indicator and feeder nomenclature as per direction of site-in-charge.	20	sq-ft	6168.07	123361.40

	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life,				
	made up of aluminuim pressure die cast housing with toughened glass / polycarbonate cover, minimum 15000 lumen output and individual high power LEDs with secondary optics,				
431	IP66 protection, impact resistance of IK07 & 10 KV external SPD equivalent to Havells Cat				
101	No. JETALEGANZAFLS150WLED730P60DTOTG along with mounting brackets assembly.				
	Minimum Two years warranty should be provided. Warranty certificate should be endorsed				
	by OEM or his representative.	2	Each	10282.81	20565.69
	SITC of 240 V, 450 MM sweep, heavy duty air cerculator wall fan including making good				
432	finish the damage with plaster and all masonary work, connection with 1.5 sqmm PVC				
	insulated, copper conductor, single core etc.	2	Each	7176.05	14352.10
	Supplying and fixing of 63A, 415V TPN Industrial type socket outlet (three phase+ Neutral +				
433	Earth), with 4 pole and earth, metal enclosed plug top along with 63 A "C" curve 4PMCB, in				
	sheet steel enclosere on surface or in recess with chained metal cover for the socket out let	0	F ack	4 4007 40	00004.00
424	and complete with connections, testing and commissioning etc. as required.	2	Each	14997.49	29994.98
434	Supply of 1.5 sqmm Copper Wire	1000	meter	25.25	25250.00
435	Supply of 2.5 sqmm Copper Wire	1000	meter	38.38	38380.00
436	Supply of 4.0 sqmm Copper Wire	1000	meter	58.58	58580.00
437	Supply of 6.0 sqmm Copper Wire	200	meter	86.86	17372.00
438	Supply of 10.0 sqmm Copper Wire	50	meter	146.45	7322.50
439	Supply of 16.0 sqmm Copper Wire	50	meter	227.25	11362.50
440	Supply of 16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable.	20	meter	27.27	545.40
441	Supply of 16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible				
	copper cable	20	meter	29.29	585.80
442	Supply of Copper cable 3 core 2.5 Sq. mm	20	meter	218.16	4363.20
443	Supply of 2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated,				
-+-3	unarmoured, telephone cable	20	meter	18.18	363.60
444	Supply of 4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated,				
	unarmoured, telephone cable	10	meter	34.34	343.40
445	Supply of Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated,	10	matar	07.07	272 70
110	shielded with fine tinned copper braid protected with PVC sheath	10	meter	27.27	272.70
446	Supply of UTP 4 Pair CAT 6 LAN Cable	10	meter	38.38	383.80
447	Supply of 20 mm dia. ISI marked, steel conduit	10	meter	101	1010.00
448	Supply of 25 mm dia. ISI marked, steel conduit	10	meter	128.27	1282.70
449	Supply of 32 mm dia. ISI marked, steel conduit	5	meter	179.78	898.90
450	Supply of 20 mm dia. ISI marked, PVC conduit	10	meter	29.29	292.90
451	Supply of 25 mm dia. ISI marked, PVC conduit	10	meter	40.4	404.00
452	Supply of 32 mm dia. ISI marked, PVC conduit	10	meter	63.63	636.30
	S/F of PVC Batten/casing caping of 20X12 MM size including suitable size of PVC cover and				
453	others all accessories as required. Makes : AKG/ BEC/ Prescision/Legrand. (Cost for 50	6 .2			
	metres)	20	meter	33.33	666.60

454	S/F of PVC Batten/casing caping of 25X12 MM size including suitable size of PVC cover and others all accessories as required. Makes : AKG/ BEC/ Prescision/Legrand. (Cost for 50				
		30	meter	28.28	848.40
455	S/F of PVC Batten/casing caping of 32X12 MM size including suitable size of PVC cover and others all accessories as required. Makes : AKG/ BEC/ Prescision/Legrand. (Cost for 50				
455	metres)	5	meter	35.35	176.75
456	Supply of 3 mm thick phenolic laminated sheet	20	sq ft	257.55	5151.00
457	Supply of Ceiling rose, 3 pin, 5 amps ISI marked	50	Each	27.27	1363.50
458	Supply of S.P. 5/6 amps, one way modular switch, ISI marked	200	Each	47.47	9494.00
459	Supply of S.P. 5/6 amps, two way modular switch, ISI marked	100	Each	93.93	9393.00
460	Supply of S.P. 15/16 amps, one way modular switch, ISI marked	100	Each	102.01	10201.00
	Supply of screw Driver kits (Blister Packing) consisting of 8 screw drivers 713, 922, 725, 828,	100	Eddin	102.01	10201100
461	912, 712, 937 I, P5 861 75. Taparia Make Item code 1013.	5	set	709.02	3545.10
462	Supply of 5 pin 5/6 amps modular socket outlet, ISI marked	50	Each	86.86	4343.00
463	Supply of 6 pin 15/16 amps modular socket outlet, ISI marked	50	Each	145.44	7272.00
464	Supply of Modular bell push, ISI marked	10	Each	85.85	858.50
465	Supply of 01 module stepped type electronic fan regulator on the existing modular plate.	5	Each	247.45	1237.25
466	Supply of Stepped type Modular Fan regulator (2 module)	20	Each	305.02	6100.40
467	Supply of Telephone Socket outlet modular type	2	Each	93.93	187.86
468	Supply of T.V. Socket outlet modular type	2	Each	93.93	187.86
469	Supply of Modular blanking plate	20	Each	22.22	444.40
470	Supply of Modular base & cover plate for 1 OR 2 module	5	Each	58.58	292.90
471	Supply of Modular base & cover plate for 3 module	5	Each	77.77	388.85
472	Supply of Modular base & cover plate for 4 module	5	Each	84.84	424.20
473	Supply of Modular base & cover plate for 6 module	5	Each	109.08	545.40
474	Supply of Modular base & cover plate for 8 module	5	Each	139.38	696.90
475	Supply of Modular base & cover plate for 12 module	5	Each	203.01	1015.05
476	Supply of Line Testers Yellow/ Green, minimum Lenght 125 mm, Taparia Make Item code:				
4/6	814.	5	Each	55.55	277.75
477	Supply of 01 or 02 Module PVC box.	5	Each	77.77	388.85
478	Supply of 03 Module PVC box.	5	Each	55.55	277.75
479	Supply of 04 Module PVC box.	5	Each	66.66	333.30
480	Supply of 06 Module PVC box	5	Each	82.82	414.10
481	Supply of 08 Module PVC box	5	Each	92.92	464.60
482	Supply of 12/16 Module PVC box.	5	Each	292.9	1464.50
483	Supply of S.P. 5/6 amps, one way switch, piano type ISI marked	200	Each	14.14	2828.00
484	Supply of S.P. 5/6 amps, two way switch, piano type ISI marked	10	Each	26.26	262.60
485	Supply of S.P. 15/16 amps, one way switch, piano type ISI marked	100	Each	66.66	6666.00

486	Supply of 3 pin 5/6 amps socket outlet, piano type ISI marked	100	Each	32.32	3232.00
487	Supply of 6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	50	Each	82.82	4141.00
488	Supply of Bell push, piano type	20	Each	26.26	525.20
489	Supply of Telephone Socket outlet piano type	2	Each	53.53	107.06
490	Supplying of P.T. stepped type electronic fan regulator on the existing switch box including				
	connections etc in all respect as required.	100	Each	230.28	23028.00
491	Supply of Call bell ding dong type, single phase.	50	Each	60.6	3030.00
492	Supply of Wireless Call Bell inbuilt with Tune selector Volume Controller.	10	Each	844.36	8443.60
493	Supply of 5/6 A 3-Pin Top good quality.	20	Each	81.81	1636.20
494	Supply of 15/16 A 3-Pin Top good quality.	20	Each	124.23	2484.60
495	Supply of Astrononical time switch suitable for 1 output per phase and suitable for single				
	phase supply	5	Each	4183.42	20917.10
496	Supply of PVC Batten/ Angle Holder	100	Each	30.3	3030.00
497	Supply of 25 amps.modular SP MCB, "C" curve, 10 KA breaking capacity	5	Each	223.21	1116.05
498	Supply of 6 amps. to 32 amps. ratings , SP MCB, "C" curve, 10 KA breaking capacity	80	Each	186.85	14948.00
	Supplying and fixing of 40 amps to 63 amps rating, 240/415 volts, 10 kA, "C" curve, single				
499	Pole miniature circuit breaker suitable for inductive load in the existing MCB DB complete				
	with connections, testing and commissioning etc as required.	20	Each	709.02	14180.40
500	Supply of 6 amps. to 32 amps. ratings , DP MCB, "C" curve, 10 KA breaking capacity	10	Each	604.99	6049.90
501	Supplying and fixing of 40 amps to 63 amps rating, 240/415 volts, 10 kA, "C" curve, Douple	0	F		40504.40
500	Pole miniature circuit breaker suitable for inductive load	8	Each	1570.55	12564.40
502	Supply of 6 amps. to 32 amps. ratings , TP MCB, "C" curve, 10 KA breaking capacity	2	Each	971.62	1943.24
503	Supplying and fixing of 40amps to 63 amps rating, 415 volts, 10 kA, "C" curve, Triple Pole miniature circuit breaker suitable for inductive load in the existing MCB DB complete with				
505	connections, testing and commissioning etc. as required.	2	Each	2324.01	4648.02
504	Supply of 6 amps. to 32 amps. ratings , TPN MCB, "C" curve, 10 KA breaking capacity	2	Each	1202.91	2405.82
504	Supplying and fixing of 40amps to 63 amps rating, 415 volts, 10 kA, "C" curve, Four Pole	Ζ	Lacii	1202.31	2403.02
505	miniature circuit breaker suitable for inductive load in the existing MCB DB complete with				
000	connections, testing and commissioning etc. as required.	2	Each	2880.52	5761.04
506	Supply of Single pole, blanking plate	50	Each	11.11	555.50
507	Supply of 25 amps. rating, 2 pole RCCB, 30mA	10	Each	2017.98	20179.80
508	Supply of 40 amps. rating, 2 pole RCCB, 30mA	10	Each	2660.34	26603.40
509	Supply of 63 amps. rating, 2 pole RCCB, 30mA	10	Each	2743.16	27431.60
510	Supply of 40 amps. rating, 4 pole RCCB, 30mA	5	Each	3170.39	15851.95
510	Supply of 63 amps. rating, 4 pole RCCB, 30mA	5	Each	2840.12	14200.60
	Supply of 20 amps. SPN, industrial type socket outlet, with plug top and metal chained			2010112	14200100
512	cover in sheet steel enclosure	2	Each	941.32	1882.64
512	Supply of 20 amps. TPN, industrial type socket outlet, with plug top and metal chained		1		-
513	cover in sheet steel enclosure	2	Each	1379.66	2759.32

514	Supply of Sheet steel TP/4P MCB enclosure	2	Each	489.85	979.70
	Supply of SPN Automatic Changeover switches with Current Limiter (ACCL) Double pole				
515	400V, 9A-30A capacity on board/DB's etc complete with connections in all				
	respects.(Make:Legrand/HAVELLS/ABB/L&T)	10	Each	2770.43	27704.30
516	Supply of Aluminium lugs for 6 sq. mm cable	2	Each	2.02	4.04
517	Supply of Aluminium lugs for 10 sq. mm cable	2	Each	3.03	6.06
518	Supply of Aluminium lugs for 16 sq. mm cable	2	Each	4.04	8.08
519	Supply of Aluminium lugs for 25 sq. mm cable	2	Each	6.06	12.12
520	Supply of Aluminium lugs for 35 sq. mm cable	2	Each	7.07	14.14
521	Supply of Aluminium lugs for 50 sq. mm cable	2	Each	10.1	20.20
522	Supply of Aluminium lugs for 70 sq. mm cable	2	Each	16.16	32.32
523	Supply of Aluminium lugs for 95 sq. mm cable	2	Each	17.17	34.34
524	Supply of Aluminium lugs for 120 sq. mm cable	2	Each	24.24	48.48
525	Supply of Aluminium lugs for 150 sq. mm cable	2	Each	31.31	62.62
526	Supply of Aluminium lugs for 185 sq. mm cable	2	Each	38.38	76.76
527	Supply of Aluminium lugs for 240 sq. mm cable	2	Each	66.66	133.32
528	Supply of Aluminium lugs for 300 sq. mm cable	2	Each	93.93	187.86
529	Supply of Aluminium lugs for 400 sq. mm cable	2	Each	135.34	270.68
530	Supply of Copper Lugs 6 Sq. mm	2	Each	7.07	14.14
531	Supply of Copper Lugs 10 Sq. mm	2	Each	13.13	26.26
532	Supply of Copper Lugs 16 Sq. mm	2	Each	19.19	38.38
533	Supply of Copper Lugs 25 Sq. mm	2	Each	41.41	82.82
534	Supply of Copper Lugs 35 Sq. mm	2	Each	44.44	88.88
535	Supply of Copper Lugs 50 Sq. mm	2	Each	67.67	135.34
536	Supply of Copper Lugs 70 Sq. mm	2	Each	91.91	183.82
537	Supply of Copper Lugs 95 Sq. mm	2	Each	124.23	248.46
538	Supply of Copper Lugs 120 Sq. mm	2	Each	200.99	401.98
520	Supply of Al. Alloy/ cadmium plated iron screws, 0.50 - 3 " (Each Packet 100 Pc)		Each		
539		2	packet	124.23	248.46
540	Supply of Iron screws, 35 mm X 6 mm - 45 mm X 6 mm (Each Packet 100 Pc)		Each		
540		2	packet	249.47	498.94
541	Supply of Steel fastener 6 mm x 75 mm (Each Packet 100 Pc)		Each		
341		1	packet	996.87	996.87
	Supply of Steel fastener 8 mm x 75 mm (Each Packet 100 Pc)	· ·	•		
542			Each	4.40.4.0	4404.00
	Supply of DV(C features Dell Dus (Citti) (Feature 400 De)	1	packet	1494.8	1494.80
543	Supply of PVC fastener Roll Plug (Gitti) (Each Packet 100 Pc)		Each		
5 75		5	packet	124.23	621.15

544	Supply of PVC clip for Cable / Batton Clip for Batton (Each Packet 100 Pc)		Each		
		5	packet	62.62	313.10
515	Supply of 6 mm dia rivet/ stud/ bolts and nuts (Each Packet 100 Pc)		Each		
545		1	packet	623.17	623.17
	Supply of GI saddles 19mm x 0.55mm / 25 mm x 0.90 mm for conduit/cable (Each Packet				
546	100 Pc)	1	Each	240.47	240.47
	Supply of GI saddles 25mm x 0.90mm for conduit/cable (Each Packet 100 Pc)	1	packet	249.47	249.47
547	Supply of Orsaddles Zomm x 0.50mm for conduiveable (Lacit racket 100 r c)		Each		
		1	packet	249.47	249.47
548	Supply of GI saddle 20mm x 3mm for conduit/cable (Each Packet 100 Pc)		Each		
540		1	packet	497.93	497.93
	Supply of Brass Machine Screw 0.5 - 1 " (Each Packet 100 Pc) good quality.		, E a a h		
549		5	Each packet	178.77	893.85
	Supply of Brass Machine Screw 1.5 - 2.5 " (Each Packet 100 Pc) Good Quality.	5	ραικει	170.77	093.03
550			Each		
		10	packet	238.36	2383.60
551	Supply of Fan Condencer 1.5-4.0 MFD.	2	Each	37.37	74.74
552	Supply of Fan Split Pin off size (Each packet of 100 pices) good quality.		Each		
552		10	packet	59.59	595.90
553	Supply of Fan Nut Bolt for fan clamp (Each packet of 100 pices) good quality.		Each		
555		10	packet	595.9	5959.00
551	Supply of Fan Reel (Each packet of 100 pices) off size good quality.		Each		
554		50	packet	536.31	26815.50
555	Supply of M.S. Fan Clamp type I or II 16 mm dia M.S. bar, bent to shape of hook.	10	Each	112.11	1121.10
556	Supply of Ball Bearing 6201	10	Each	75.75	757.50
557	Supply of Ball Bearing 6202	10	Each	79.79	797.90
558	Supply of Ball Bearing 6203	2	Each	105.04	210.08
559	Supply of Ball Bearing 6204	2	Each	167.66	335.32
560	Supply of wall mounting fan 400 mm Sweep 1350 RPM with strong ABS construncti	10	Each	2238.16	22381.60
561	Supply of Pedastal fan 400 mm Sweep 1500 RPM with strong ABS construnction.	1	Each	2685.59	2685.59
562	Supply of 150 mm sweep PVC body exhaust fan with strong ABS construnction.	10	Each	1094.84	10948.40
563	Supply of 240 V, 200 mm sweep PVC body exhaust fan with strong ABS construnction.	5	Each	1214.02	6070.10
564	Supply of 240 V, 250 mm sweep PVC body exhaust fan with strong ABS construnction.	10	Each	1313	13130.00
565	Supply of 240 V, 300 mm sweep M.S. body exhaust fan.	20	Each	1604.89	32097.80
	Supply of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current				
566	(BLDC) Motor, service value not less then 7, class of insulation: B, 3 nos. blades, 30 cm long				
	down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, and all other remaining	50	Each	3238.06	161903.00

	accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.),				
	insulation resistance minimum 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply				
567	Do but ceiling fan 1400 mm sweep, 240 Volt, 50 Hz, along with down rods of standard length	10	Each	3445.11	34451.10
568	Supply of PVC insulation Tape	200	Each	14.14	2828.00
569	Supply of Single Phase kwh electronic energy meter 10-60A capacity class-1, counter/LCD display	50	Each	1443.29	72164.50
570	Supply of Three Phase four wire kwh electronic energy meter 10-60A capacity class-1, direct base counter/LCD display.	10	Each	3103.73	31037.30
571	Supply of LED light fitting 600mm length minimum 1000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with acessories and prewired with both side end cap equivalent to Havells Cat no. LUMILINEPLUSBS10WLED865SPCSS. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	30	Each	426.22	12786.60
572	Supply of LED light fitting 1200mm length minimum 2000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with acessories and prewired with both side end cap equivalent to havells cat no. LUMILINEPLUSBS20WLED865SPCSS. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	300	Each	749.42	224826.00
573	Supply of LED Bulkhead complete with connections as required equivalent to Havells Cat No. HEXAFT10WWLED857SSYMBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	20	Each	1370.57	27411.40
574	Supply LED Round recess Light 12 watt equivalent to Havells cat no ENDURAHODLR12WLED830MOD + LEDDRIVER 12/15 W ENDURAHOCE. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	20	Each	1330.17	26603.40
575	Supply LED Round recess Light 6 watt equivalent to Havells cat no INTEGRAHEDLR6WLED857S. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	30	Each	999.9	29997.00
576	Supply of LED Foot/Skirting Light 6 W. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	10	Each	2463.39	24633.90
577	Supply of LED Driver good quality for up to 18-20 W surface/ recess/ linear/ bollard LED fittings.	20	Each	417.13	8342.60
578	Supply of LED Driver good quality for 25 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	548.43	10968.60
579	Supply of LED Driver good quality for 40-50 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	834.26	16685.20
580	Supply of LED Driver good quality for 75- 90 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	1191.8	23836.00
581	Supply of LED Plate good quality for up to 18-20 W Surface/ recess/ Bollard/ linear light LED	10	Each	417.13	4171.30

	fittings.				
582	Supply of LED Plate good quality for 25 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	494.9	9898.00
583	Supply of LED Plate good quality for 40-50 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	715.08	14301.60
584	Supply of LED Plate good quality for 75 -90 W Surface/ recess/ Post top/ street light LED fittings.	20	Each	953.44	19068.80
585	Supply of SMF Battery Exide Make 12V, 7Ah.	20	Each	975.66	19513.20
586	Supply of SMF Battery Exide Make 12V, 12Ah.	10	Each	1849.31	18493.10
587	Supply of SMF Battery Exide Make 12V, 18Ah.	2	Each	2500.76	5001.52
588	Supply of SMF Battery Exide Make 12V, 26Ah.	2	Each	3683.47	7366.94
589	Supply of thermostate good quality for 25-50 Ltr Geyser.	2	Each	467.63	935.26
590	Supply of elements good quality (1.5 /2 KW) for 25-50 Ltr Geyser.	20	Each	878.7	17574.00
591	Supply of Flexible stainless steel pipe good quality 450 mm long water connection for Hot water (90° C) for 25-50 Ltr Geyser.	20	Pair	248.46	4969.20
592	Supply of UPS 600 VA, 220 Volt AC to 240 Volt AC, 50 Hz 1.6 Amp Output supply with Dry sealed Battery .	20	Each	2664.38	53287.60
593	Supply of electric motor for Descert Air cooler.	5	Each	1149.38	5746.90
594	Supply of water pump for Descert Air cooler.	2	Each	180.79	361.58
595	Supply of socket set (17 socket + 6 Accessories) with box.	5	set	2586.61	12933.05
596	Supply of Double Ended Spanner Sets. size 1/8x3/16, 3/16x1/4, 1/4x5/16, 5/16x3/8, 3/8x7/16, 7/16x1/2, 1/2x9/16, 9/16x5/8, 5/8x3/4. Model DW-09 Taparia Make.	2	set	891.83	1783.66
597	Supply of Allen Key Sets, 9 pics set (Size-1.5,2,2.5,3,4,5,6,8,10), model-KM9V make: Taparia	2	set	254.52	509.04
598	Supply of Hammer Drill Bits, Size (5x50x110/6x50x110) HDF, Make: Taparia	2	Each	62.62	125.24
599	Supply of Hand Operated Crimping Tools 10-95mm	5	Each	9720.24	48601.20
600	Supply of Hand Operated Insulation tester (up to 1000 Volt, 0-200 Mega Ohms), Eddy current dynamometer, Polycarbonate body,	1	set	2541.16	2541.16
601	Supply of Digital Earth Resistance Tester (0-10-1000 Ohms)	1	Each	3211.8	3211.80
602	Supply of Electrical Seafty Rubber Insulating Hand gloves Full fingures, cuff length 6 to 10 inch upto 33 KV.	1	Each	597.92	597.92
603	Supply of lift Log Book A4 Size, Maximum 200 pages.	2	Each	381.78	763.56
604	Supply of digital LED Emergency exit/ lift signage Board double side display.	2	Each	1986.67	3973.34
605	Supply of High Di-electric strenth Insulating Rubber Chequered mat upto 33 kV , size 1 mtr x 2 mtr x 3 mm thick.				
		2	Each	3267.35	6534.70
606	Supply of Combination Pliers minimum 165 mm length taparia make (Item code:1621-6).	20	Each	276.74	5534.80

607	Supply of Long Nose Pliers (Flat or Round Nose. item code:1421-6N, 1431-6) minimum 165 mm length, Taparia Make.	1	Each	285.83	285.83
608	Supply of Screw Driver Sets (6.0x0.8, 3.5x0.5 phillips 0 square poker, Phillips 1+Extension Rod. Taparia Make Item Code:840.	1	set	367.64	367.64
Total in Figures					22910118.97

Note:

1. Vendor will arrange safety gears such as safety shoes, safety helmets, gloves etc. for the manpower deployed at his own cost. If the manpower is found not wearing safety gears, a penalty of Rs. 200 per violation will be imposed by the EIC.