

**INSTITUTE WORKS DEPARTMENT
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

E-TENDER DOCUMENT

For

**“Electrical General Maintenance/ Renovation Works at Zone-1 of IIT
Roorkee”**



**Indian Institute of Technology Roorkee
Roorkee-247667, Tel.no. 01332-28-5747/5386**

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**INSTITUTE WORKS DEPARTMENT
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

No. IWD/DI/etender/GM/Z1/94

Dated: 24.06.2024

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 of appropriate class & category registered with CPWD, State PWD, MES, having experience of working in Central / State Government, Public Sector Undertaking / Autonomous Organization of Central / State Government and Working Contractors of IITR who fulfil the PQ criteria for the following work:

Name of the Work	Estimated Cost	Completion Period (Months)
“Electrical General Maintenance/ Renovation Works at Zone-1 of IIT Roorkee”	Rs. 190.89 Lacs (inclusive of GST & Cess).	12 Months

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

Critical Data Sheet

Sr. No.	Name of Organization	Indian Institute of Technology Roorkee
1	Tender Type (Open/Limited/EOI/Auction/Single)	Open
2	Tender Category (Services/Goods/Works)	Works
3	Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Work Contract
4	Product Category (Civil Works/Electrical Works / Fleet Management / Computer Systems)	Electrical Works
5	Date of Issue/Publishing Original Tender	24.06.2024 (17:30 Hrs.)
6	Document Download / Sale Start Date	24.06.2024 (17:30 Hrs.)
7	Pre-bid Meeting	NA
8	Seek Clarification Start Date	24.06.2024 (17:30 Hrs.)
9	Seek Clarification End Date	01.07.2024 (12:30 Hrs.)
10	Bid Submission Start Date	08.07.2024 (12:30 Hrs.)
11	Bid Submission Closing Date	15.07.2024 (12:30 Hrs.)
12	Bid Opening Date	16.07.2024 (12:30 Hrs.)
13	Tender Fee	Rs.1000.00+18% GST (non-refundable). Payment of the Tender Fee can be made by RTGS, NEFT in below mentioned account no. 1. Account Name- NON-MHRD GOVERNMENT FUND IIT ROORKEE 2. Address- IIT Roorkee, Haridwar. a. Account No.- 0000032685865515 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. 3,82,000/- Payment of EMD can be made by RTGS, NEFT in below mentioned account no. The bidders shall be required to upload the scanned copies of transaction of payment of tender EMD / Tender Fee including e-receipt (clearly indicating UTR No. & Tender Reference i.e. NIT No. must be entered in the remark 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 per details given below. 1. Account Name- NON MHRD GOVERNMENT FUND IIT ROORKEE 2. Address- IIT Roorkee, Haridwar. a. Account No.- 0000032685865515 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.	1) Affidavit (on Rs.10 non-judicial stamp with notarized) regarding establishment of proprietorship firm / partnership deed / letter of incorporation for private ltd / ltd firm with written power of attorney (in case of bidder is owner, not required) of the authorized signatory. 2) Self-certified copy of work orders along with work completion certificate as per eligibility criteria. 3) Proof of online deposit of tender fee and EMD. 4) Solvency certificate as per the tender document and Annexure-I & Annexure-II. 5) Turnover certificate from CA preferably with UDIN Number, GST registration certificate, PAN Card, ESI registration certificate & EPF registration certificate. 6) Valid Electrical Contractor License Class-A 7) Qualifying information (Annexure-A) & Notarized undertaking on Rs. 100 non-judicial stamp paper as per the NIT.
20	Price Bid	To be uploaded only on CPP Portal (http://eprocure.gov.in/eprocure/app) in excel sheet.

21	Address for communication	Executive Engineer (E/M), Institute Works Department, James Thomson Building, IIT Roorkee, Roorkee-247667 (India), Tel. No. 01332-285747 / 5386
22	Email Address	ee-electrical@iitr.ac.in / nceeraj.aec2018@iitr.ac.in

**Sd-
Institute Engineer,
IWD, IIT Roorkee**

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: <https://eprocure.gov.in/eprocure/app>). 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 submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app> .

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 to ensure that they do not lend their DSCs to others which may lead to misuse.
- 1.6 Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC/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 Bidder 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 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, 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 Bidder should log into the site well in advance for bid submission so that he/she upload 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 by all the bidders. Bidders are requested to note that they should necessarily 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 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 the filename. 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 of appropriate class & category registered with CPWD, State PWD, MES, having experience of working in Central / State Government, Public Sector Undertaking / Autonomous Organization of Central / State Government and Working Contractors of IITR who fulfil the PQ criteria for the work of “**Electrical General Maintenance/ Renovation Works at Zone-1 of IIT Roorkee**”

- 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,

or

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)

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 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 Works**”.

- (c) Average annual financial turn over 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 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: [www.iitr.ac.in \(http://mm.iitr.ac.in/mmweb/tenders\)](http://mm.iitr.ac.in/mmweb/tenders) or from Central Public Procurement Portal (CPPP) <https://eprocure.gov.in/eprocure/app>.
 6. While submitting the bids, 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 of those bidders, whose bid found technically qualified.
9. The bid submitted shall become invalid and cost of 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 registration etc.) 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. Cost of 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 has to submit detail of such agency(s) to Dean Infrastructure. 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 agreement with bidder(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to 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. Final bill of 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.

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.

B: DOCUMENTS INVITING TENDERS

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. Particular 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 with EMD will be summarily rejected. The EMD of the unsuccessful Bidders will be discharged / returned within Thirty (30) days from the date of opening of the financial bids. The EMD of the successful Bidder shall be converted as Security deposit. The EMD may be forfeited and further the bidder shall not be allowed to participate in the re-bidding 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 pay all fees and charges which may be leviable at his own cost. The completion/ occupancy certificates including clearance from fire committee or any other statutory obligation shall be arranged by the bidder. Any official fees shall be paid by the Owner. All other 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 tender 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
- Meets the eligibility criteria defined
 - Has been properly signed and meets the requirements mentioned
 - is accompanied by the required securities and;
 - 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
- Which affects in any substantial way the scope, quality, or performance of the works;
 - 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
 - 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:
- Making any correction for errors; or
 - Making an appropriate adjustment for any other acceptable variations, deviations; and
 - 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 in excess of 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 of accepting 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. It may be further extended. The Performance guarantee shall be returned / refunded to the bidder on completion of the work 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 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 in case 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 Owner. However, necessary time extension will be given if the delays are not attributed to the Bidder.

QUALIFYING INFORMATION

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

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		

16. Average annual financial turnover during the last 3 years, ending 31st March of previous financial year, should not be less than 50% of the estimated cost. CA certificate be 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	2021-2022	
2	2022-2023	
3	2023-2024	

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 supervise and 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 the use of such materials shall be discontinued until the decision of the Owner. Such examinations shall not in 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 shall 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 contract agreement shall remain the property of the Owner and shall be 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. 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, 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 has to 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, bidder has to provide at his own cost sufficient fenced and covered appropriate area on site for storage of above materials with lock and key arrangement. For arranging meetings 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 so advice the bidder and the bidder shall promptly take corrective action. In case the bidder fails to take corrective action, Owner shall take such corrective actions 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 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 as 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 got 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 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. 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 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 from 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, plant, tools and rubbish shall be removed and the site left clean and tidy. The space allocated by 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 inter alia 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 to persons or property as aforesaid and also in respect of any claim made in respect of 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 the 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 of 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 than 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 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 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 anytime 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 impeding 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 similar to 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 obligation 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 Utrakhand at Nainital.
- 40.0 Notices:** Any notice given by one party to the other pursuant to this contract shall be sent to 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's 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 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 programme 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 the 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 may 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 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's notice.

48.0 Uncorrected Defects: If the Bidder has not corrected a defect within the time specified in the Owner's 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's 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 & Saharanpur Campus.

2. (i) Security Deposit: As per Critical Data Sheet.

- (ii) Release of Security Deposit: Security Deposit will be refunded by the Owner after completion of Defect Liability Period i.e. 12 months from date of work completion (in case of work).

3. Performance Guarantee: As per Critical Data Sheet. Performance guarantee shall be valid for a period of 60 days after completion.

4. Warranty (Defective Liability Period):

(a) Minimum warranty period of complete system will be **one year**. However, for outsourcing services an undertaking for statutory payment liability shall be taken from the Contractor. Equipment warranty certificate as per OEM will be submitted to the department.

(b) During 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.

(c) 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 Payment shall be made as

- a) No advance payment shall be made.
- b) Payment shall be made either on completion of a quarter OR on bill amount not less than 25% of the contract value OR as passed by Dean Infrastructure.
- c) Part of the payment can be withheld by the department.

5.2 Payment shall not be released against 1st R/A bill until submission of following documents by bidder to the Owner:

- a) Measurement Book (MB).
- b) GST Invoice with revenue stamp.
- c) EPF & ESI deposit proof (of one month prior to the month of invoice).
- d) Insurance – Bidder's All Risk (CAR) Policy, Workmen compensation policy and Third-Party Liability Insurance.

5.2.1 Basis of Payment in RA bills

Payment in RA bills shall be based on quantity of work/ service/ supply executed at site (as per the item of work/ service/ supply) & verified by Owner as per the item rate in work orders. 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).

5.2.2 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.

5.2 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/ service/ supply execution/site requirement/and user suggested changes during execution.

The bill should be accompanied with the following documents.

- a) Work completion certificate.
- b) Site clearance status (only for works).
- c) Indemnity certificate towards 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 final bill.
- g) Warranty certificate (if applicable).

Settlement of final bill shall be made subject to deduction of all dues payable by 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 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 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 person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is a terms 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 such 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 as a consequence 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 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 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 overall L1 basis (including BoQ1, BoQ2, BoQ3 etc.).
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) Upto 30% less than the estimated cost : nil
 - ii) Above 30% and less than upto 50% : 20%
 - iii) Above 50% and less than upto 70% : 40%
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: Order No.: P-45021/2/2017-PP (BE-II), DPIIT, Ministry of Commerce and Industry issued Dated: 16th Sept. 2020. 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-I).
20. Estimate is based on DSR-2022 (E&M) + DSR 2021(Civil) + Non scheduled 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/-)

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 owner before 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 best of my knowledge.

Dated:

Signature of Bidder

Witness:

Postal Address

Occupation:

PERFORMANCE GUARANTEE BOND

In consideration of the Indian Institute of Technology Roorkee having agreed under the terms and conditions of agreement No..... dated..... made between And.....(hereinafter called "the contractor(s)")..... for the work.....(hereinafter called "the said agreement") having agreed to production of a irrevocable Bank Guarantee for..... (Rupees.....only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement,

1. We.....(hereinafter referred to as "the Bank") hereby undertake to pay to IIT Roorkee (Indicate the name of the bank) an amount not exceeding Rs..... (.....only) on demand by the Indian Institute of Technology Roorkee.

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.

5. We(indicate the name of bank) further agree with the Indian Institute of Technology Roorkee that Indian Institute of Technology Roorkee shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Indian Institute of Technology Roorkee against the said contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Institute or any indulgence by the Indian Institute of Technology Roorkee to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

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

7. We (Indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Indian Institute of Technology Roorkee in writing.

8. This guarantee shall be valid up to..... unless extended on demand by Indian Institute of Technology Roorkee. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to(Rupees.....only)and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged. Dated theday of..... for (Indicate the name of the Bank).

List of Approved Makes

S.No.	Materials/ Equipments	Manufacturer/ Make
A	LE.I., MCBDB & MCB, Cables & Wires	
1	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO'S	Schneider Electric / Legrand / L&T / ABB / Siemens
2	MCBDB & Loose Wire Box	Legrand/ L&T/ schneider / ABB / Siemens
3	Change Over Switches	Asco/ Russel/ Socomac/ ABB/ L&T/ schneider/Havells
4	Automatic Transfer Switch (ATS)	Asco/ Russel/ Socomac/ ABB/ L&T/ schneider/Havells
5	FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)	Finolex/ RR Kabel/ KEI/ Havells/ Polycab
6	MS Conduit (ISI marked) with heavy duty MS Conduit pipe accessories	BEC/ NIC/ AKG/ RMCON / MK(Honeywell) (Note: The make of accessories will be same that of conduit pipe & will comply to IS:4768 part 2 2003)
7	PVC Conduit/ Batten (ISI marked) with heavy duty PVC conduit pipe accessories	AKG/ BEC/ Precision/ MK(Honeywell)
8	Modular Switch, Socket/ Telephone Socket/ Cable TV Socket/ Data Outlet Socket/ Fan Regulator/ G.I. Boxes Etc. (Wiring accessories)/ Regulator etc.	Havells (Murano)/ Legrand (Arteor)/ Schindler Electric (Zencelo)/ Honeywell-MK (Blenzeplus)/ ABB (Trisha)
9	Selector Switch & Toggle Switch	Salzer (Larsen & Toubro)/ Siemens/ Kaycee
10	PVC Trunking	Legrand/ schneider/ MK(Honeywell)/ AKG/ Precision
11	G.I. Pipe	Tata/ Jindal (Hissar)/ Prakash Surya
12	Paints	Asian/ Berger/ Dulux/ Narolac
13	Terminals Blocks and Connectors	Elmax/ Wago/ Hensel/ Connectwell
14	Phenolic Laminated Sheet/ Bakelite Sheet	Hylam/ Formica/ (P-I Grade)/ Mylam/ Greenlam
15	Piano Type Switch/ Socket	Anchor/ Kinjal/ Cona
16	Ceiling Rose/ Holder/ Call Bell/ Buzzer etc.	Anchor/ Kinjal/ Cona
B	Fans & Fitting	
1	LED Fittings	Wipro/ Phillips/ Crompton Greaves/ Havells
2	Exhaust Fan	Havells/ Crompton Greaves/ Usha/ Almonard/ Orient/Atomberg
3	Ceiling Fan	Havells/ Crompton Greaves/ Usha/ Almonard/ Orient/Atomberg
4	Geysers	Racold/ CG/ Havells/ Usha/ Jaquar
5	Sensor based LED Light Fittings	OCTIOT/Wipro/ Phillips/ Crompton Greaves/ Havells
C	Street Lighting	
1	Ornamental G.I. pole (Factory Finish)	Phillips/ Crompton Greaves/ Wipro/ Bajaj
2	Hot Dipped Galvanized Octagonal Pole (Factory Finish)	Crompton Greaves/ Phillips/ Bajaj/ Wipro
3	Polycarbonate Junction Box/ Enclosure	Hensel/ Spelsberg/ Naptune- Bals/ Cape Electric

4	XLPE insulated PVC Sheated Alum./ Copper conductor Armoured cable of 1.1KV Grade	Finolex/ Universal/ Polycab/ RPG Cable/ KEI/ Havells/ Grandley/ Gemscap
D	Sub Station Equipments	
1	LT Panel/ Meter Panel Board/ Outdoor Feeder Pillar/ APFC Panel (less than 200 kVAR)	Tricolite Electrical Industries/ Control & Switchgears Pvt. Ltd./ Sterling & Wilson/ Milestone/ Adlec Control System Pvt. Ltd./ Advance Panels & Switchgears Pvt. Ltd./ S.S. Enterprises/ A.R. Engineers/ Salabh(India) Industries
2	Air Insulated Rising Main	C&S/ L&T/ Schneider/ Legrand
3	Sandwich type Bus Trunking	C&S/ L&T/ Schneider/ Legrand
4	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor Based (Ics=Icu=100%)	Schneider Electric (NSx Series)/ Siemens (VL Series)/ L&T (D-Shine)/ Legrand (DPX3)/ ABB (Tmax)/ C & S (Winbreak-1/2)
5	Power/ Aux. Contactor 3/4 pole	Schneider Electric/ L&T/ Siemens/ Legrand/ ABB/ C&S
6	Potential Transformer/ Current Transformer	Automatic Electric/ Gilbert & Maxwell/ Matrix/ Precise/ L&T/ Kappa/ Rishabh / CGL
7	LED type indicating lamps/ Push Button	Schneider Electric/ L&T/ Siemens/ C&S/ GE
8	Overload relays with built-in Single Phase Preventer	Schneider Electric/ L&T/ Siemens/ C&S/ ABB
9	Conventional/ Electronic Digital Meters (A/V/PF/Hz/KW/KWH)	Conzerv/ Larsen & Toubro/ Secure/ AE/ C&S/ Siemens/ Schneider/ ABB/ Rishabh
10	Timer	Siemens/ L&T/ Legrand/ ABB/ Schneider Electric/ C&S
11	Fasteners/ G.I. Clamps	Hilti/ Fischer/ Chilli/ GMGR
12	D.W Corrugated HDPE Pipe (ISI marked)	REX/ Dura plast/ Zenduct/ Triputi/ Duraline
13	Transformer (Oil/ Dry type)	Crompton/ ABB/ Schneider/ Voltamp/ Kirloskar (only oil type)
14	HT Panel/ Ring Main Unit	Siemens/ ABB/ L&T/ Schneider
15	H.T Cable (ISI marked)	CCI/ Polycab/ Universal/ KEI/ Havells/ RPG Cables
16	HT End Termination Cable Joint Kit	Reychem/ Cab Seal/ 3M
17	ACBs (with display)	Siemens/ L&T/ ABB (Emax)/ C&S / Legrand/ Schnieder
18	Rubber Mat	Jyoti/ Deep Jyoti/ Premier (duly ISI marked)
19	Fire Extinguishers	Minimax/ Safex/ Ceasefire/ New Age/ Ansul/Amerex
20	Capacitors & Reactors/ APFC Relay	EPCOS/ L&T/ ABB/ Siemens/ Schneider
21	APFC Panel (200 KVAR & Above) (Accessories make will be as per manufacture's standards)	L&T/ Schneider/ ABB/ Siemens/ Legrand/ C&S
22	Cable Glands Double Compression with earthing links	Comet/ Cosmos/ Dowells/ Gripwell/ Jainson /Hax Brass (Copper Alloy India)
23	Bimetallic Cable Lugs	Comet/ Dowells (Biller India)/ Hax Brass (Copper Alloy India)/ Jainson/ Action
24	MS / GI Cable Tray	Pilco/ Slotco/ Pasco/ MEM/ BEC/ Steelways/ Legrand
25	Programmable Logic Controller (PLC)	Siemens / Woodward/ Allen Bradley / Delta / Mitsubishi

Annexure-I

(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/are as under:

- 1.
- 2.
- 3.

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

Annexure-II

PERFORMA FOR DIRECT PAYMENT/ TRANSFER TO BANK ACCOUNT BY IIT ROORKEE

S. No.	Particulars	Information
1	Firm (Beneficiary) Name	
2	Address	
3	Complete Bank Account No. of the Firm (Beneficiary) (In case of change in Bank Account vendor write to Account Office)	
4	Bank Name	
5	Branch Address	
6	IFSC Code No.	
7	Permanent Account No.	
8	Mobile No. (for SMS)	
9	Email ID (For Information)	
10	Enrolment No. (for student)	

We undertake that all the information provided above is correct and IIT Roorkee will not be responsible in case of any error on the part of firm.

Verification by Bank (one time only) Information given at 1,4,5,6&7 verified by Bank Seal and Signature of the Bank	Seal and Signature of the Firm
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INSTITUTE WORK DEPARTMENT
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Schedule of Quantities

NAME OF WORK: Electrical General Maintenance/ Renovation Works at Zone-1 of IIT Roorkee

BoQ

<u>PRICE SCHEDULE</u>							
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. B to enter the Bidder Name and Values only)							
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate including GST@18% & Cess in Rs. P	Quoted Currency in INR / Other Currency	TOTAL AMOUNT including GST @18% & Cess in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	12	53	55
1	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	555	Each	1311.27	INR	727754.85	INR Seven Lakh Twenty Seven Thousand Seven Hundred & Fifty Four and Paise Eighty Five Only
2	..do..but 2 way light point with 2 nos. two way P.T. switch.	30	Each	1970.67	INR	59120.10	INR Fifty Nine Thousand One Hundred & Twenty and Paise Ten Only
3	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.	268	Each	1335.97	INR	358039.96	INR Three Lakh Fifty Eight Thousand &Thirty Nine and Paise Ninety Six Only
4	.....do.....but 2 way light point with 2 nos. two way modular switches.	2	Each	2127.46	INR	4254.92	INR Four Thousand Two Hundred & Fifty Four and Paise Ninety Two Only

5	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	50	Each	1066.42	INR	53321.00	INR Fifty Three Thousand Three Hundred & Twenty One Only
6	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.	5	Each	1564.72	INR	7823.60	INR Seven Thousand Eight Hundred & Twenty Three and Paise Sixty Only
7	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.	133	Each	1090.04	INR	144975.32	INR One Lakh Forty Four Thousand Nine Hundred & Seventy Five and Paise Thirty Two Only
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	INR	3354.96	INR Three Thousand Three Hundred & Fifty Four and Paise Ninety Six Only
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.	172	Each	616.44	INR	106027.68	INR One Lakh Six Thousand & Twenty Seven and Paise Sixty Eight Only
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.	4	Each	960.10	INR	3840.40	INR Three Thousand Eight Hundred & Forty and Paise Forty Only
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).	302	Each	384.47	INR	116109.94	INR One Lakh Sixteen Thousand One Hundred & Nine and Paise Ninety Four Only

12	Supplying and fixing 1.5 mm thick metal box of 180 mm x 100 mm x 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..	279	Each	524.08	INR	146218.32	INR One Lakh Forty Six Thousand Two Hundred & Eighteen and Paise Thirty Two Only
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.	399	Each	512.27	INR	204395.73	INR Two Lakh Four Thousand Three Hundred & Ninety Five and Paise Seventy Three Only
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..	279	Each	629.32	INR	175580.28	INR One Lakh Seventy Five Thousand Five Hundred & Eighty and Paise Twenty Eight Only
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.	48	Meter	351.18	INR	16856.64	INR Sixteen Thousand Eight Hundred & Fifty Six and Paise Sixty Four Only
16	.....do..... but 2x2.5 mm ² + 1x2.5 mm ² earth wire	1757	Meter	396.28	INR	696263.96	INR Six Lakh Ninety Six Thousand Two Hundred & Sixty Three and Paise Ninety Six Only
17	.....do..... but 2x4 mm ² + 1x4 mm ² earth wire	3081	Meter	459.64	INR	1416150.84	INR Fourteen Lakh Sixteen Thousand One Hundred & Fifty and Paise Eighty Four Only
18	.....do.....but 2x6 mm ² + 1x6 mm ² earth wire	58	Meter	632.55	INR	36687.90	INR Thirty Six Thousand Six Hundred & Eighty Seven and Paise Ninety Only
19	.....do..... but 2x10 mm ² + 1x6 mm ² earth wire	242	Meter	762.49	INR	184522.58	INR One Lakh Eighty Four Thousand Five Hundred & Twenty Two and Paise Fifty Eight Only
20	.....do..... but 2x16 mm ² + 1x6 mm ² earth wire	2	Meter	1011.64	INR	2023.28	INR Two Thousand & Twenty Three and Paise Twenty Eight Only
21	.....do..... but 4 X 4 mm ² + 2 X 4 mm ² earth wire	10	Meter	727.05	INR	7270.50	INR Seven Thousand Two Hundred & Seventy and Paise Fifty Only
22	.....do..... but 4 X 6 mm ² + 2 X 6 mm ² earth wire	114	Meter	992.31	INR	113123.34	INR One Lakh Thirteen Thousand One Hundred & Twenty Three and Paise Thirty Four Only
23	.....do..... but 4 X 10 mm ² + 2 X 6 mm ² earth wire	10	Meter	1252.21	INR	12522.10	INR Twelve Thousand Five Hundred & Twenty Two and Paise Ten Only
24	.....do..... but 4 X 16 mm ² + 2 X 6 mm ² earth wire	4	Meter	1766.62	INR	7066.48	INR Seven Thousand & Sixty Six and Paise Forty Eight Only

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.	125	Meter	250.23	INR	31278.75	INR Thirty One Thousand Two Hundred & Seventy Eight and Paise Seventy Five Only
26	.....do..... but 2x2.5 mm ² + 1x2.5 mm ² earth wire	401	Meter	295.33	INR	118427.33	INR One Lakh Eighteen Thousand Four Hundred & Twenty Seven and Paise Thirty Three Only
27	.....do..... but 2x4 mm ² + 1x4 mm ² earth wire	544	Meter	358.69	INR	195127.36	INR One Lakh Ninety Five Thousand One Hundred & Twenty Seven and Paise Thirty Six Only
28	.....do.....but 2x6 mm ² + 1x6 mm ² earth wire	179	Meter	471.46	INR	84391.34	INR Eighty Four Thousand Three Hundred & Ninety One and Paise Thirty Four Only
29	.....do.....but 2x10 mm ² + 1x6 mm ² earth wire	24	Meter	612.14	INR	14691.36	INR Fourteen Thousand Six Hundred & Ninety One and Paise Thirty Six Only
30	.....do.....but 2x16 mm ² + 1x6 mm ² earth wire	10	Meter	829.08	INR	8290.80	INR Eight Thousand Two Hundred & Ninety and Paise Eighty Only
31	.....do.....but 4x4 mm ² + 2x4 mm ² earth wire	10	Meter	576.70	INR	5767.00	INR Five Thousand Seven Hundred & Sixty Seven Only
32	.....do.....but 4x6 mm ² + 2x6 mm ² earth wire	104	Meter	809.75	INR	84214.00	INR Eighty Four Thousand Two Hundred & Fourteen Only
33	.....do.....but 4x10 mm ² + 2x6mm ² earth wire	10	Meter	1079.30	INR	10793.00	INR Ten Thousand Seven Hundred & Ninety Three Only
34	.....do.....but 4x16 mm ² + 2x6 mm ² earth wire	10	Meter	1465.92	INR	14659.20	INR Fourteen Thousand Six Hundred & Fifty Nine and Paise Twenty Only
35	Supplying and drawing 2 x 1.5 sq mm sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/PVC conduit as required with connection complete.	331	Meter	75.18	INR	24884.58	INR Twenty Four Thousand Eight Hundred & Eighty Four and Paise Fifty Eight Only
36	.....do..... but 3 X 1.5 sq mm	341	Meter	102.02	INR	34788.82	INR Thirty Four Thousand Seven Hundred & Eighty Eight and Paise Eighty Two Only
37	.....do..... but 3 X 2.5 sq mm	582	Meter	147.13	INR	85629.66	INR Eighty Five Thousand Six Hundred & Twenty Nine and Paise Sixty Six Only
38	.....do..... but 3 X 4 sq mm	500	Meter	221.23	INR	110615.00	INR One Lakh Ten Thousand Six Hundred & Fifteen Only
39	.....do..... but 2 X 6 sq mm	149	Meter	231.97	INR	34563.53	INR Thirty Four Thousand Five Hundred & Sixty Three and Paise Fifty Three Only
40	.....do..... but 3 X 6 sq mm	157	Meter	326.48	INR	51257.36	INR Fifty One Thousand Two Hundred & Fifty Seven and Paise Thirty Six Only
41	.....do..... but 2 X 10 sq mm	240	Meter	326.23	INR	78295.20	INR Seventy Eight Thousand Two Hundred & Ninety Five and Paise Twenty Only

42	.....do..... but 2 X 16 sq mm	34	Meter	496.92	INR	16895.28	INR Sixteen Thousand Eight Hundred & Ninety Five and Paise Twenty Eight Only
43	.....do..... but 2 X 25 sq mm	10	Meter	689.83	INR	6898.30	INR Six Thousand Eight Hundred & Ninety Eight and Paise Thirty Only
44	.....do..... but 1 X 35 sq mm	10	Meter	490.86	INR	4908.60	INR Four Thousand Nine Hundred & Eight and Paise Sixty Only
45	.....do..... but 1 X 50 sq mm	10	Meter	684.78	INR	6847.80	INR Six Thousand Eight Hundred & Forty Seven and Paise Eighty Only
46	Supplying and drawing 2 pair, 0.5 mm ² FRLS PVC insulated copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/PVC conduit as required.	10	Meter	40.81	INR	408.10	INR Four Hundred & Eight and Paise Ten Only
47	.....do..... but 4 pair	10	Meter	57.99	INR	579.90	INR Five Hundred & Seventy Nine and Paise Ninety Only
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.	10	Meter	47.25	INR	472.50	INR Four Hundred & Seventy Two and Paise Fifty Only
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.	10	Meter	42.96	INR	429.60	INR Four Hundred & Twenty Nine and Paise Sixty Only
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.	4	Meter	50.47	INR	201.88	INR Two Hundred & One and Paise Eighty Eight Only
51	Supplying and drawing of UPT 4 pair CAT 6 LAN Cable in the existing surface / recessed Steel / PVC Conduit as required Irun of cable	16	Meter	61.21	INR	979.36	INR Nine Hundred & Seventy Nine and Paise Thirty Six Only
52	.....do..... but 2 run of cable	6	Meter	103.10	INR	618.60	INR Six Hundred & Eighteen and Paise Sixty Only
53	.....do..... but 3 run of cable	10	Meter	143.91	INR	1439.10	INR One Thousand Four Hundred & Thirty Nine and Paise Ten Only
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.	10	Meter	239.49	INR	2394.90	INR Two Thousand Three Hundred & Ninety Four and Paise Ninety Only

55	.....do..... but 25 mm size	10	Meter	274.93	INR	2749.30	INR Two Thousand Seven Hundred & Forty Nine and Paise Thirty Only
56	.....do..... but 32 mm size	30	Meter	350.10	INR	10503.00	INR Ten Thousand Five Hundred & Three Only
57	.....do..... but 40 mm size	10	Meter	504.75	INR	5047.50	INR Five Thousand & Forty Seven and Paise Fifty Only
58	S/F of G.I. Flexible pipe 32 MM size including suitable size of PVC saddle and others all accessories as required.	10	Meter	115.14	INR	1151.40	INR One Thousand One Hundred & Fifty One and Paise Forty Only
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.	162	Meter	137.46	INR	22268.52	INR Twenty Two Thousand Two Hundred & Sixty Eight and Paise Fifty Two Only
60	.....do..... but 25 mm size	115	Meter	155.72	INR	17907.80	INR Seventeen Thousand Nine Hundred & Seven and Paise Eighty Only
61	.....do..... but 32 mm size	10	Meter	197.60	INR	1976.00	INR One Thousand Nine Hundred & Seventy Six Only
62	S/F of steel wire reinforced flexible uPVC pipe 20 MM size including suitable size of PVC saddle and others all accessories as required.	10	Meter	112.11	INR	1121.10	INR One Thousand One Hundred & Twenty One and Paise Ten Only
63	.....do..... but 25 MM size	10	Meter	127.26	INR	1272.60	INR One Thousand Two Hundred & Seventy Two and Paise Sixty Only
64	.....do..... but 30-32 MM size	10	Meter	159.58	INR	1595.80	INR One Thousand Five Hundred & Ninety Five and Paise Eighty Only
65	S/F of PVC Batten/casing capping of 20X12 MM size including suitable size of PVC cover and others all accessories as required.	302	Meter	98.98	INR	29891.96	INR Twenty Nine Thousand Eight Hundred & Ninety One and Paise Ninety Six Only
66	.....do..... but 25X12 MM size	49	Meter	104.03	INR	5097.47	INR Five Thousand & Ninety Seven and Paise Forty Seven Only
67	.....do..... but 32X12 MM size	5	Meter	111.10	INR	555.50	INR Five Hundred & Fifty Five and Paise Fifty Only
68	.....do..... but 50X16 MM size	5	Meter	174.73	INR	873.65	INR Eight Hundred & Seventy Three and Paise Sixty Five Only
69	.....do..... but 50X50 MM size	5	Meter	241.39	INR	1206.95	INR One Thousand Two Hundred & Six and Paise Ninety Five Only
70	.....do..... but 75X50 MM size	5	Meter	479.75	INR	2398.75	INR Two Thousand Three Hundred & Ninety Eight and Paise Seventy Five Only
71	.....do..... but 100X50 MM size	5	Meter	631.25	INR	3156.25	INR Three Thousand One Hundred & Fifty Six and Paise Twenty Five Only

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 painting etc as required.	2	Each	191.16	INR	382.32	INR Three Hundred & Eighty Two and Paise Thirty Two Only
73	.....do..... but 100 mm x 100 mm x 60 mm deep	2	Each	224.45	INR	448.90	INR Four Hundred & Forty Eight and Paise Ninety Only
74	.....do..... but 180 mm x 100 mm x 60 mm deep	7	Each	263.11	INR	1841.77	INR One Thousand Eight Hundred & Forty One and Paise Seventy Seven Only
75	.....do..... but 200 mm x 150 mm x 60 mm deep	9	Each	381.25	INR	3431.25	INR Three Thousand Four Hundred & Thirty One and Paise Twenty Five Only
76	.....do..... but 200 mm x 250 mm x 60 mm deep	2	Each	502.60	INR	1005.20	INR One Thousand & Five and Paise Twenty Only
77	.....do..... but 200 mm x 300 mm x 60 mm deep	2	Each	563.81	INR	1127.62	INR One Thousand One Hundred & Twenty Seven and Paise Sixty Two Only
78	.....do..... but 250 mm x 300 mm x 60 mm deep	2	Each	651.88	INR	1303.76	INR One Thousand Three Hundred & Three and Paise Seventy Six Only
79	Supplying and fixing 5/6 amps piano type switch on existing switch box/ cover including connections etc. as required.	34	Each	55.84	INR	1898.56	INR One Thousand Eight Hundred & Ninety Eight and Paise Fifty Six Only
80	.....do..... but 2-way 5/6 amp switch	2	Each	68.73	INR	137.46	INR One Hundred & Thirty Seven and Paise Forty Six Only
81	.....do..... but 15/16 amp switch	2	Each	129.95	INR	259.90	INR Two Hundred & Fifty Nine and Paise Ninety Only
82	.....do..... but 5 pin 5/6 amp socket outlet	12	Each	74.10	INR	889.20	INR Eight Hundred & Eighty Nine and Paise Twenty Only
83	.....do..... but 6 pin 15/16 amp socket outlet	2	Each	147.13	INR	294.26	INR Two Hundred & Ninety Four and Paise Twenty Six Only
84	.....do..... but Bell push	3	Each	89.14	INR	267.42	INR Two Hundred & Sixty Seven and Paise Forty Two Only
85	.....do..... but Batten/Angle holder	38	Each	118.13	INR	4488.94	INR Four Thousand Four Hundred & Eighty Eight and Paise Ninety Four Only
86	.....do..... but stepped type electronic fan regulator	106	Each	346.43	INR	36721.58	INR Thirty Six Thousand Seven Hundred & Twenty One and Paise Fifty Eight Only
87	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	125	Each	93.43	INR	11678.75	INR Eleven Thousand Six Hundred & Seventy Eight and Paise Seventy Five Only
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.	579	Each	110.62	INR	64048.98	INR Sixty Four Thousand & Forty Eight and Paise Ninety Eight Only
89	.....do..... but 2-way 5/6 amp switch	38	Each	158.94	INR	6039.72	INR Six Thousand & Thirty Nine and Paise Seventy Two Only
90	.....do..... but 15/16 amp switch	89	Each	167.53	INR	14910.17	INR Fourteen Thousand Nine Hundred & Ten and Paise Seventeen Only

91	.....do..... but 5 pin 5/6 amp socket outlet	282	Each	131.02	INR	36947.64	INR Thirty Six Thousand Nine Hundred & Forty Seven and Paise Sixty Four Only
92	.....do..... but 6 pin 15/16 amp socket outlet	85	Each	211.56	INR	17982.60	INR Seventeen Thousand Nine Hundred & Eighty Two and Paise Sixty Only
93	.....do..... but Bell push	7	Each	150.35	INR	1052.45	INR One Thousand & Fifty Two and Paise Forty Five Only
94	.....do..... but stepped type electronic fan regulator	123	Each	396.28	INR	48742.44	INR Forty Eight Thousand Seven Hundred & Forty Two and Paise Forty Four Only
95	.....do..... but modular blanking plate.	180	Each	42.96	INR	7732.80	INR Seven Thousand Seven Hundred & Thirty Two and Paise Eighty Only
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.	21	Each	320.03	INR	6720.63	INR Six Thousand Seven Hundred & Twenty and Paise Sixty Three Only
97	.....do.....but 3 module	10	Each	351.18	INR	3511.80	INR Three Thousand Five Hundred & Eleven and Paise Eighty Only
98	.....do.....but 4 module	1	Each	368.36	INR	368.36	INR Three Hundred & Sixty Eight and Paise Thirty Six Only
99	.....do.....but 6 module	9	Each	431.72	INR	3885.48	INR Three Thousand Eight Hundred & Eighty Five and Paise Forty Eight Only
100	.....do.....but 8 module	25	Each	487.57	INR	12189.25	INR Twelve Thousand One Hundred & Eighty Nine and Paise Twenty Five Only
101	.....do.....but 12 module	18	Each	587.44	INR	10573.92	INR Ten Thousand Five Hundred & Seventy Three and Paise Ninety Two Only
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.	10	Each	161.60	INR	1616.00	INR One Thousand Six Hundred & Sixteen Only
103	.....do.....but 3 module	45	Each	185.84	INR	8362.80	INR Eight Thousand Three Hundred & Sixty Two and Paise Eighty Only
104	.....do.....but 4 module	1	Each	207.05	INR	207.05	INR Two Hundred & Seven and Paise Five Only
105	.....do.....but 6 module	57	Each	253.51	INR	14450.07	INR Fourteen Thousand Four Hundred & Fifty and Paise Seven Only
106	.....do.....but 8 module	1	Each	306.03	INR	306.03	INR Three Hundred & Six and Paise Three Only
107	.....do.....but 12 /16 module	21	Each	538.33	INR	11304.93	INR Eleven Thousand Three Hundred & Four and Paise Ninety Three Only

108	Supplying and fixing 1 or 2 module Modular base & cover plate on existing modular metal boxes etc. as required.	13	Each	142.83	INR	1856.79	INR One Thousand Eight Hundred & Fifty Six and Paise Seventy Nine Only
109	.....do.....but 3 module	15	Each	162.16	INR	2432.40	INR Two Thousand Four Hundred & Thirty Two and Paise Forty Only
110	.....do.....but 4 module	5	Each	169.68	INR	848.40	INR Eight Hundred & Forty Eight and Paise Forty Only
111	.....do.....but 6 module	44	Each	195.46	INR	8600.24	INR Eight Thousand Six Hundred and Paise Twenty Four Only
112	.....do.....but 8 module	6	Each	226.60	INR	1359.60	INR One Thousand Three Hundred & Fifty Nine and Paise Sixty Only
113	.....do.....but 12/18 module	5	Each	292.11	INR	1460.55	INR One Thousand Four Hundred & Sixty and Paise Fifty Five Only
114	S/F of 3 mm thick phenolic laminated bakelite sheet including cutting as required with brass machine screw and cup washer complete.	15	Sq. Ft.	279.77	INR	4196.55	INR Four Thousand One Hundred & Ninety Six and Paise Fifty Five Only
115	S/F of 1.5 - 2.00 mm thick Stainless steel sheet including cutting as required with machine screw and cup washer complete.	1	Sqft	250.48	INR	250.48	INR Two Hundred & Fifty and Paise Forty Eight Only
116	Supplying and fixing call bell suitable for A.C. single phase, 230 volts, complete as required.	1	Each	106.32	INR	106.32	INR One Hundred & Six and Paise Thirty Two Only
117	Providing and fixing 125 amp, 16 KA, rating and breaking capacity TP MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections etc. as required.	10	Each	5177.43	INR	51774.30	INR Fifty One Thousand Seven Hundred & Seventy Four and Paise Thirty Only
118	...do- but 150 / 160 amp 35 KA	15	Each	6435.01	INR	96525.15	INR Ninety Six Thousand Five Hundred & Twenty Five and Paise Fifteen Only
119	.....do..... but 250 amp 35 KA MCCB	6	Each	14907.26	INR	89443.56	INR Eighty Nine Thousand Four Hundred & Forty Three and Paise Fifty Six Only
120	.....do..... but 400 amp 35 KA MCCB	7	Each	23181.92	INR	162273.44	INR One Lakh Sixty Two Thousand Two Hundred & Seventy Three and Paise Forty Four Only
121	.....do..... but 630 amp 50 KA MCCB	1	Each	29919.77	INR	29919.77	INR Twenty Nine Thousand Nine Hundred & Nineteen and Paise Seventy Seven Only

122	Providing and fixing 125 amp, 36 KA, rating and breaking capacity 4P MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections etc. as required.	1	Each	8815.92	INR	8815.92	INR Eight Thousand Eight Hundred & Fifteen and Paise Ninety Two Only
123	.....do..... but 250 amp 36 KA MCCB	1	Each	18804.57	INR	18804.57	INR Eighteen Thousand Eight Hundred & Four and Paise Fifty Seven Only
124	.....do..... but 400 amp 50 KA MCCB	1	Each	45819.35	INR	45819.35	INR Forty Five Thousand Eight Hundred & Nineteen and Paise Thirty Five Only
125	.....do..... but 630 amp 50 KA MCCB	1	Each	46277.92	INR	46277.92	INR Forty Six Thousand Two Hundred & Seventy Seven and Paise Ninety Two Only
126	Supplying and fixing of 8-way, double door prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	13	Each	2763.23	INR	35921.99	INR Thirty Five Thousand Nine Hundred & Twenty One and Paise Ninety Nine Only
127	.....do..... but 12-way, double door	47	Each	2486.15	INR	116849.05	INR One Lakh Sixteen Thousand Eight Hundred & Forty Nine and Paise Five Only
128	.....do..... but 16 way, Double door	1	Each	3373.22	INR	3373.22	INR Three Thousand Three Hundred & Seventy Three and Paise Twenty Two Only
129	Supplying and fixing 4 way (4+12), double door, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	3	Each	4393.46	INR	13180.38	INR Thirteen Thousand One Hundred & Eighty and Paise Thirty Eight Only
130	do... but 6 way (6 + 18), double door TPN DB	1	Each	5341.74	INR	5341.74	INR Five Thousand Three Hundred & Forty One and Paise Seventy Four Only
131	do... but 8 way (4 + 24), double door TPN DB	3	Each	6408.16	INR	19224.48	INR Nineteen Thousand Two Hundred & Twenty Four and Paise Forty Eight Only

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 incoming 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.	1	Each	8067.38	INR	8067.38	INR Eight Thousand & Sixty Seven and Paise Thirty Eight Only
133	..do.. but 8 way (4 + 24), double door VTPN DB	4	Each	10916.53	INR	43666.12	INR Forty Three Thousand Six Hundred & Sixty Six and Paise Twelve Only
134	..do..but 12 way (4 + 36), double door VTPN DB	1	Each	13781.78	INR	13781.78	INR Thirteen Thousand Seven Hundred & Eighty One and Paise Seventy Eight Only
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)	1	Each	440.36	INR	440.36	INR Four Hundred & Forty and Paise Thirty Six Only
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)	1	Each	521.16	INR	521.16	INR Five Hundred & Twenty One and Paise Sixteen Only
137	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	1	Each	1256.50	INR	1256.50	INR One Thousand Two Hundred & Fifty Six and Paise Fifty Only
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.	534	Each	274.93	INR	146812.62	INR One Lakh Forty Six Thousand Eight Hundred & Twelve and Paise Sixty Two Only
139	.....do..... but 40 to 63 amp SP MCB	70	Each	652.46	INR	45672.20	INR Forty Five Thousand Six Hundred & Seventy Two and Paise Twenty Only

140	.....do..... but 5 to 32 amp DP MCB	18	Each	704.50	INR	12681.00	INR Twelve Thousand Six Hundred & Eighty One Only
141	.....do..... but 40 to 63 amp DP MCB	47	Each	1347.34	INR	63324.98	INR Sixty Three Thousand Three Hundred & Twenty Four and Paise Ninety Eight Only
142	.....do..... but 5 to 32 amp TP MCB	12	Each	1081.45	INR	12977.40	INR Twelve Thousand Nine Hundred & Seventy Seven and Paise Forty Only
143	.....do..... but 40 to 63 amp TP MCB	10	Each	1954.35	INR	19543.50	INR Nineteen Thousand Five Hundred & Forty Three and Paise Fifty Only
144	.....do..... but 5 to 32 amp 4P MCB	6	Each	1318.79	INR	7912.74	INR Seven Thousand Nine Hundred & Twelve and Paise Seventy Four Only
145	.....do..... but 40 to 63 amp 4P MCB	6	Each	2403.80	INR	14422.80	INR Fourteen Thousand Four Hundred & Twenty Two and Paise Eighty Only
146	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 connections, testing and commissioning etc as required.	1	Each	1035.25	INR	1035.25	INR One Thousand & Thirty Five and Paise Twenty Five Only
147	..do.. but 40 to 63 amp Icn=6kA, rating, DC SP MCB	1	Each	1305.93	INR	1305.93	INR One Thousand Three Hundred & Five and Paise Ninety Three Only
148	.....do..... but 06-32 amps, Icn=6kA, rating, DC DP MCB	1	Each	2094.74	INR	2094.74	INR Two Thousand & Ninety Four and Paise Seventy Four Only
149	.....do..... but 40 to 63 amp Icn=6kA, rating, DC DP MCB	1	Each	2800.73	INR	2800.73	INR Two Thousand Eight Hundred and Paise Seventy Three Only
150	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	100	Each	13.96	INR	1396.00	INR One Thousand Three Hundred & Ninety Six Only
151	Supplying and fixing 25 amps rating, double pole, (single phase and neutral), 240 volts, 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.	15	Each	2177.94	INR	32669.10	INR Thirty Two Thousand Six Hundred & Sixty Nine and Paise Ten Only
152	.....do.....but 40 amps DP RCCB	9	Each	2837.33	INR	25535.97	INR Twenty Five Thousand Five Hundred & Thirty Five and Paise Ninety Seven Only
153	.....do.....but 63 amps DP RCCB	38	Each	2923.25	INR	111083.50	INR One Lakh Eleven Thousand & Eighty Three and Paise Fifty Only

154	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 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1	Each	3423.70	INR	3423.70	INR Three Thousand Four Hundred & Twenty Three and Paise Seventy Only
155	.....do.....but 63 amps 4P RCCB	6	Each	3084.34	INR	18506.04	INR Eighteen Thousand Five Hundred & Six and Paise Four Only
156	Supplying and fixing 2P / 4P MCB sheet steel enclosure on surface/ recess for 415 volts complete with suitable bus bar for neutral including connections, testing and commissioning etc. as required.	10	Each	874.66	INR	8746.60	INR Eight Thousand Seven Hundred & Forty Six and Paise Sixty Only
157	Supplying and fixing TP/4P MCCB sheet steel enclosure on surface/ recess for 415 volts MCCB upto 250Amps complete with suitable bus bar for neutral including connections, testing and commissioning etc. as required.	10	Each	4959.10	INR	49591.00	INR Forty Nine Thousand Five Hundred & Ninety One Only
158	Supply and fixing of SPN Automatic Changeover switches with Current Limiter (ACCL) 400V, 30A/9-30A capacity on board/DB's etc complete with connections in all respects.	3	Each	3335.02	INR	10005.06	INR Ten Thousand & Five and Paise Six Only
159	SITC of Automatic Changeover switch TPN, 63 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	60064.70	INR	60064.70	INR Sixty Thousand & Sixty Four and Paise Seventy Only
160	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 125 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	77849.79	INR	77849.79	INR Seventy Seven Thousand Eight Hundred & Forty Nine and Paise Seventy Nine Only
161	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 250 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	101365.62	INR	101365.62	INR One Lakh One Thousand Three Hundred & Sixty Five and Paise Sixty Two Only
162	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 400 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	127544.82	INR	127544.82	INR One Lakh Twenty Seven Thousand Five Hundred & Forty Four and Paise Eighty Two Only
163	SITC of Motorised Automatic Changeover/ATS switch 4 pole, 630 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	161432.34	INR	161432.34	INR One Lakh Sixty One Thousand Four Hundred & Thirty Two and Paise Thirty Four Only

164	SITC of 4 Pole Power Contactors, 400 Amps in existing panel chamber alongwith all accessories complete with all connections as required.	1	Each	60111.16	INR	60111.16	INR Sixty Thousand One Hundred & Eleven and Paise Sixteen Only
165	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A, "C" curve, SP, 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	1740.85	INR	1740.85	INR One Thousand Seven Hundred & Forty and Paise Eighty Five Only
166	Supplying and fixing 30 amps, 240 volts, TPN industrial type, socket, with 4 pole and earth, metal 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	INR	4410.64	INR Four Thousand Four Hundred & Ten and Paise Sixty Four Only
167	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and 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.	10	Set	8024.43	INR	80244.30	INR Eighty Thousand Two Hundred & Forty Four and Paise Thirty Only
168	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 Meter bellow ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	100	Meter	154.65	INR	15465.00	INR Fifteen Thousand Four Hundred & Sixty Five Only
169	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and 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.	5	Set	14861.08	INR	74305.40	INR Seventy Four Thousand Three Hundred & Five and Paise Forty Only
170	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)	50	Meter	1247.91	INR	62395.50	INR Sixty Two Thousand Three Hundred & Ninety Five and Paise Fifty Only

171	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.	10	Meter	1043.86	INR	10438.60	INR Ten Thousand Four Hundred & Thirty Eight and Paise Sixty Only
172	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	10	Meter	211.56	INR	2115.60	INR Two Thousand One Hundred & Fifteen and Paise Sixty Only
173	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.	62	Meter	415.61	INR	25767.82	INR Twenty Five Thousand Seven Hundred & Sixty Seven and Paise Eighty Two Only
174	.....do.....but above 35 mm ² and upto 95 mm ²	10	Meter	434.94	INR	4349.40	INR Four Thousand Three Hundred & Forty Nine and Paise Forty Only
175	.....do.....but above 95 mm ² and upto 185 mm ²	10	Meter	453.20	INR	4532.00	INR Four Thousand Five Hundred & Thirty Two Only
176	...do.....but above 185 mm ² and upto 400 mm ²	66	Meter	509.04	INR	33596.64	INR Thirty Three Thousand Five Hundred & Ninety Six and Paise Sixty Four Only
177	Laying/Removal of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 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.	125	Meter	214.79	INR	26848.75	INR Twenty Six Thousand Eight Hundred & Forty Eight and Paise Seventy Five Only
178	.....do..... but 35 mm ² to 95 mm ² cable	40	Meter	233.04	INR	9321.60	INR Nine Thousand Three Hundred & Twenty One and Paise Sixty Only
179	.....do..... but 95 mm ² to 185 mm ² cable	120	Meter	251.30	INR	30156.00	INR Thirty Thousand One Hundred & Fifty Six Only
180	.....do..... but 185 mm ² to 400 mm ² cable	282	Meter	308.22	INR	86918.04	INR Eighty Six Thousand Nine Hundred & Eighteen and Paise Four Only
181	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 conductor cable of 1.1 kV grade as required.	2	Each	288.89	INR	577.78	INR Five Hundred & Seventy Seven and Paise Seventy Eight Only

182	..do...but for 4 core 16 mm ² (28mm) PVC cable.	6	Each	331.85	INR	1991.10	INR One Thousand Nine Hundred & Ninety One and Paise Ten Only
183	..do...but for 4 core 25 mm ² (28mm) PVC cable.	2	Each	338.29	INR	676.58	INR Six Hundred & Seventy Six and Paise Fifty Eight Only
184	..do...but for 3½ core 35 mm ² (32mm) PVC cable.	2	Each	396.28	INR	792.56	INR Seven Hundred & Ninety Two and Paise Fifty Six Only
185	..do...but for 3½ core 50 mm ² (35 mm) PVC cable	2	Each	443.53	INR	887.06	INR Eight Hundred & Eighty Seven and Paise Six Only
186	..do...but for 3½ core 70 mm ² (38 mm)PVC cable	2	Each	502.60	INR	1005.20	INR One Thousand & Five and Paise Twenty Only
187	..do...but for 3½ core 95 mm ² (45 mm) PVC cable	2	Each	631.47	INR	1262.94	INR One Thousand Two Hundred & Sixty Two and Paise Ninety Four Only
188	..do...but for 3½ core 120 mm ² (45 mm) PVC cable	2	Each	658.32	INR	1316.64	INR One Thousand Three Hundred & Sixteen and Paise Sixty Four Only
189	..do...but for 3½ core 150 mm ² (50 mm) PVC cable	2	Each	748.53	INR	1497.06	INR One Thousand Four Hundred & Ninety Seven and Paise Six Only
190	..do...but for 3½ core 185 mm ² (57 mm) PVC cable	2	Each	939.69	INR	1879.38	INR One Thousand Eight Hundred & Seventy Nine and Paise Thirty Eight Only
191	..do...but for 3½ core 240 mm ² (62 mm) PVC cable	2	Each	1102.93	INR	2205.86	INR Two Thousand Two Hundred & Five and Paise Eighty Six Only
192	..do...but for 3½ core 300 mm ² (70 mm) PVC cable	2	Each	1283.35	INR	2566.70	INR Two Thousand Five Hundred & Sixty Six and Paise Seventy Only
193	..do...but for 3½ core 400 mm ² (70 mm) PVC cable	2	Each	1671.04	INR	3342.08	INR Three Thousand Three Hundred & Forty Two and Paise Eight Only
194	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.	10	Each	2328.29	INR	23282.90	INR Twenty Three Thousand Two Hundred & Eighty Two and Paise Ninety Only
195	.....do.....but for 4 core 25 mm ² PVC cable.	10	Each	2661.21	INR	26612.10	INR Twenty Six Thousand Six Hundred & Twelve and Paise Ten Only
196	.....do.....but for 4 or 3½ core 35 mm ² PVC cable.	2	Each	2661.21	INR	5322.42	INR Five Thousand Three Hundred & Twenty Two and Paise Forty Two Only

197	.....do.....but for 3 ½ core 50 mm² PVC cable	2	Each	2661.21	INR	5322.42	INR Five Thousand Three Hundred & Twenty Two and Paise Forty Two Only
198	.....do.....but for 3 ½ core 70 mm² PVC cable	2	Each	3611.64	INR	7223.28	INR Seven Thousand Two Hundred & Twenty Three and Paise Twenty Eight Only
199	.....do.....but for 3 ½ core 95 mm² PVC cable	2	Each	3777.02	INR	7554.04	INR Seven Thousand Five Hundred & Fifty Four and Paise Four Only
200	.....do.....but for 3 ½ core 120-185 mm² PVC cable	2	Each	4873.51	INR	9747.02	INR Nine Thousand Seven Hundred & Forty Seven and Paise Two Only
201	.....do.....but for 3 ½ core 240 mm² PVC cable	2	Each	5282.68	INR	10565.36	INR Ten Thousand Five Hundred & Sixty Five and Paise Thirty Six Only
202	.....do.....but for 3 ½ core 300 mm² PVC cable	2	Each	6558.51	INR	13117.02	INR Thirteen Thousand One Hundred & Seventeen and Paise Two Only
203	.....do.....but for 3 ½ core 400 mm² PVC cable	2	Each	8554.95	INR	17109.90	INR Seventeen Thousand One Hundred & Nine and Paise Ninety Only
204	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core 120-185 mm², XLPE aluminium conductor cable of 11 kV(UE) grade as required.	1	Each	16074.63	INR	16074.63	INR Sixteen Thousand & Seventy Four and Paise Sixty Three Only
205	.....do.....but for 3 core 240- 300 mm² XLPE cable	1	Each	17450.34	INR	17450.34	INR Seventeen Thousand Four Hundred & Fifty and Paise Thirty Four Only
206	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3 core 120-185 mm², XLPE aluminium conductor cable of 11 kV(UE) grade as required.	1	Each	21586.05	INR	21586.05	INR Twenty One Thousand Five Hundred & Eighty Six and Paise Five Only
207	.....do.....but for 3 core 240-300 mm² XLPE cable	1	Each	24480.30	INR	24480.30	INR Twenty Four Thousand Four Hundred & Eighty and Paise Thirty Only
208	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 3 core 240-300 mm², XLPE aluminium conductor cable of 11 kV(UE) grade as required.	1	Each	44989.20	INR	44989.20	INR Forty Four Thousand Nine Hundred & Eighty Nine and Paise Twenty Only

209	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.	1	Each	76940.86	INR	76940.86	INR Seventy Six Thousand Nine Hundred & Forty and Paise Eighty Six Only
210	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.	1	Each	105913.42	INR	105913.42	INR One Lakh Five Thousand Nine Hundred & Thirteen and Paise Forty Two Only
211	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 masonry housing complete as per direction of site in charge complete.	1	Each	28496.14	INR	28496.14	INR Twenty Eight Thousand Four Hundred & Ninety Six and Paise Fourteen Only
212	Supply and fixing of Chemical earthing with GI heavy earthing pipe 75 to 90 mm dia, 3 mtrs length with GI Strip 40 mm X 6 mm from top to bottom inside the pipe and pipe prefilled with growth hygroscopic gel. The work shall be completed by boring dia -100 mm, 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 respect and tested on site for guranteed result of earth resisittance less than 1 ohms.	1	Each	10326.24	INR	10326.24	INR Ten Thousand Three Hundred & Twenty Six and Paise Twenty Four Only
213	Supply and fixing of Chemical earthing with Copper heavy earthing pipe 50 to 65 mm, length -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, 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 resisittance less than 1 ohms.	1	Each	12382.60	INR	12382.60	INR Twelve Thousand Three Hundred & Eighty Two and Paise Sixty Only
214	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 12" (300mm) size with all fixing material, nut bolt etc. and T&P.	1	Each	701.95	INR	701.95	INR Seven Hundred & One and Paise Ninety Five Only
215	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 15" (380mm) size with all fixing material, nut bolt etc. and T&P.	1	Each	730.23	INR	730.23	INR Seven Hundred & Thirty and Paise Twenty Three Only

216	SITC of M.S. Louver/ Flap/ Shutter for Exhaust Fan 18" (450mm) size with all fixing material, nut bolt etc. and T&P.	1	Each	826.18	INR	826.18	INR Eight Hundred & Twenty Six and Paise Eighteen Only
217	SITC of Thermoplastic Cable Junction Box IP 65 Dimensions (LXBXH) 155 x 210 x 92 mm with metric knockouts for cable entry suitable for 10-16 mm ² PVC sheathed armoured 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	INR	76255.00	INR Seventy Six Thousand Two Hundred & Fifty Five Only
218	SITC of Thermoplastic polycarbonate IP65 in accordance with EN 60 529 (Dust proof, water proof & weatherproof) junction box size- (300X300X195) mm shock proof, prust proof, corrosion free with metric knockouts for cable entry suitable for min 25 mm ² size PVC 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.	5	Each	16588.24	INR	82941.20	INR Eighty Two Thousand Nine Hundred & Forty One and Paise Twenty Only
219	SITC of Thermoplastic polycarbonate IP65 in accordance with EN 60 529 (Dust proof, water proof & weaheproof) junction box size- (300X450X195) mm shock proof, prust proof, corrosion free with metric knockouts for cable entry suitable for min 25 mm ² size PVC 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.	1	Each	22845.19	INR	22845.19	INR Twenty Two Thousand Eight Hundred & Forty Five and Paise Nineteen Only
220	Disconnection, dismantalling & Shifting of old Electric panel / Feeder pillar. After dismantalling the panels to be sent to central / zonal store, as per direction of site incharge.	6	Each	1737.20	INR	10423.20	INR Ten Thousand Four Hundred & Twenty Three and Paise Twenty Only
221	Supplying and fixing of Digital Ammeter equivalent to Make: Secure & Model DPM I310 in existing panel/DB complete with all connections, testing and commissioning etc as required.	1	Each	1990.71	INR	1990.71	INR One Thousand Nine Hundred & Ninety and Paise Seventy One Only

222	Supplying and fixing of Digital Voltmeter equivalent to Make: Secure & Model DPM V310 in existing panel/DB complete with all connections, testing and commissioning etc as required.	1	Each	1990.71	INR	1990.71	INR One Thousand Nine Hundred & Ninety and Paise Seventy One Only
223	Supplying and fixing of Digital Multifunction Meter equivalent to Make: Secure & Model Elite 102 in existing panel/DB complete with all connections, testing and commissioning etc as required.	1	Each	5443.90	INR	5443.90	INR Five Thousand Four Hundred & Forty Three and Paise Ninety Only
224	SITC of 100/5- 600/5 CT burden 15 VA, tap wound and ring type CL -1 complete with all connections including all mounting accessories in all respect.	3	Each	671.65	INR	2014.95	INR Two Thousand & Fourteen and Paise Ninety Five Only
225	SITC of 800/5- 1200/5 CT tap wound and ring type CL - 1 complete with all connections including all mounting accessories in all respect.	3	Each	916.07	INR	2748.21	INR Two Thousand Seven Hundred & Forty Eight and Paise Twenty One Only
226	SITC of LED Indicator 230V, AC complete with all connections including all mounting accessories in all respect.	3	Each	207.05	INR	621.15	INR Six Hundred & Twenty One and Paise Fifteen Only
227	Removal / fixing of off size of perforated cable trays in convenient section, removal from joining with connectors, which suspended from the ceiling with M.S suspenders including bolt & nut suspenders etc as required. complete in all respect.	5	Meter	194.93	INR	974.65	INR Nine Hundred & Seventy Four and Paise Sixty Five Only
228	Cleaning of Ceiling/Wall/ Pedestal/Cabin/ Exhaust/ Frseh Air Fan installed at several locations in different departments /residences /offices by using own ladder and T&P as required for proper completion of work.	50	Each	85.85	INR	4292.50	INR Four Thousand Two Hundred & Ninety Two and Paise Fifty Only
229	Making hole for installation of exhaust fan of size upto 450 mm sweep by demolishing brick work manually/by mechanical means including disposal of malba within 50 meters lead and making good the wall by plastering etc. as required.	10	Each	265.63	INR	2656.30	INR Two Thousand Six Hundred & Fifty Six and Paise Thirty Only
230	SITC of desert air- cooler strong air delivery (3400 CMH approx) with minimum three speed operation , fully collapsible louver complete equivalent to orient snowbreeze slim 55	1	Each	10198.98	INR	10198.98	INR Ten Thousand One Hundred & Ninety Eight and Paise Ninety Eight Only
231	SITC of Pedestal fan 400 mm Sweep revolving type with speed regulator.	1	Each	2685.59	INR	2685.59	INR Two Thousand Six Hundred & Eighty Five and Paise Fifty Nine Only

232	SITC of Wall mounting fan 400 mm Sweep revolving type with speed regulator.	40	Each	2453.29	INR	98131.60	INR Ninety Eight Thousand One Hundred & Thirty One and Paise Sixty Only
233	SITC of 240 V, 150 MM sweep PVC body exhaust fan in existing opening and making good finish with plaster and all masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	1	Each	1549.34	INR	1549.34	INR One Thousand Five Hundred & Forty Nine and Paise Thirty Four Only
234	SITC of 240 V, 200 MM sweep PVC body exhaust fan in existing opening and making good finish with plaster and all masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	1	Each	1887.69	INR	1887.69	INR One Thousand Eight Hundred & Eighty Seven and Paise Sixty Nine Only
235	SITC of 240 V, 250 MM sweep PVC body exhaust fan in existing opening and making good finish with plaster and all masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	82	Each	2003.84	INR	164314.88	INR One Lakh Sixty Four Thousand Three Hundred & Fourteen and Paise Eighty Eight Only
236	SITC of 240 V, 225-230 MM sweep, light duty metallic body exhaust fan in existing opening and making good finish the damage with plaster and all masonry work , connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	1	Each	1790.73	INR	1790.73	INR One Thousand Seven Hundred & Ninety and Paise Seventy Three Only
237	SITC of 240 V, 300 MM sweep, light duty metallic body exhaust fan in existing opening and making good finish the damage with plaster and all masonry work , connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	1	Each	2059.39	INR	2059.39	INR Two Thousand & Fifty Nine and Paise Thirty Nine Only
238	SITC of 240 V, 375-380 MM sweep, 900 RPM heavy duty exhaust fan in existing opening including making good finish the damage with plaster and all masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	29	Each	4178.37	INR	121172.73	INR One Lakh Twenty One Thousand One Hundred & Seventy Two and Paise Seventy Three Only
239	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 masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	4	Each	3695.59	INR	14782.36	INR Fourteen Thousand Seven Hundred & Eighty Two and Paise Thirty Six Only

240	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 masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	19	Each	5054.04	INR	96026.76	INR Ninety Six Thousand & Twenty Six and Paise Seventy Six Only
241	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.	1	Each	3453.19	INR	3453.19	INR Three Thousand Four Hundred & Fifty Three and Paise Nineteen Only
242	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 minimum 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	585	Each	3453.19	INR	2020116.15	INR Twenty Lakh Twenty Thousand One Hundred & Sixteen and Paise Fifteen Only
243	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.	10	Each	3660.24	INR	36602.40	INR Thirty Six Thousand Six Hundred & Two and Paise Forty Only
244	Providing and fixing G.I. pipes 15/16mm dia (Medium B class) complete with G.I. fittings including trenching and refilling etc.	5	Meter	342.54	INR	1712.70	INR One Thousand Seven Hundred & Twelve and Paise Seventy Only
245	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	6	Meter	563.81	INR	3382.86	INR Three Thousand Three Hundred & Eighty Two and Paise Eighty Six Only

246	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	6	Meter	632.55	INR	3795.30	INR Three Thousand Seven Hundred & Ninety Five and Paise Thirty Only
247	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	46	Meter	810.39	INR	37277.94	INR Thirty Seven Thousand Two Hundred & Seventy Seven and Paise Ninety Four Only
248	.....do.....but G.I. Pipe 80 mm dia.	18	Meter	1107.64	INR	19937.52	INR Nineteen Thousand Nine Hundred & Thirty Seven and Paise Fifty Two Only
249	.....do.....but G.I. Pipe 100 mm dia.	22	Meter	1939.52	INR	42669.44	INR Forty Two Thousand Six Hundred & Sixty Nine and Paise Forty Four Only
250	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.	5	Meter	583.15	INR	2915.75	INR Two Thousand Nine Hundred & Fifteen and Paise Seventy Five Only
251	.....do.....150 mm width X 50 mm depth X 1.6 mm thickness	22	Meter	648.66	INR	14270.52	INR Fourteen Thousand Two Hundred & Seventy and Paise Fifty Two Only
252	.....do.....200 mm width X 50 mm depth X 1.6 mm thickness	5	Meter	739.94	INR	3699.70	INR Three Thousand Six Hundred & Ninety Nine and Paise Seventy Only
253	.....do.....450 mm width X 50 mm depth X 2.0 mm thickness	5	Meter	1221.06	INR	6105.30	INR Six Thousand One Hundred & Five and Paise Thirty Only
254	SITC of LED light fitting 600mm length minimum 1000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with accessories and prewired with both side end cap equivalent to Havells Cat no. LUMILINE+BS10WLED865SPCSS. Minimum Two years warranty should be provided.	10	Each	650.44	INR	6504.40	INR Six Thousand Five Hundred & Four and Paise Forty Only
255	SITC of LED light fitting 1200mm length minimum 2000Lumen with mounting rail box / aluminium extruded Batten suitable for surface, wall and conduit mounting with accessories and prewired with both side end cap equivalent to havells cat no. LUMILINE+BS20WLED865SPCSS. Minimum Two years warranty should be provided.	2351	Each	894.86	INR	2103815.86	INR Twenty One Lakh Three Thousand Eight Hundred & Fifteen and Paise Eighty Six Only

256	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.	1	Each	6875.07	INR	6875.07	INR Six Thousand Eight Hundred & Seventy Five and Paise Seven Only
257	SITC of Round recess/surface mounted LED slim/sleek down light fitting with LED Driver minimum 1000 lumen suitable for Armstrong/Grid ceiling equivilant to Havells cat no. EDGEPRONEORDDL 12WLED857S. Minimum Two years warranty should be provided and certificate should be endorsed by OEM or his representative	10	Each	1602.87	INR	16028.70	INR Sixteen Thousand & Twenty Eight and Paise Seventy Only
258	SITC of Round recess/surface mounted LED slim/sleek down light fitting with LED driver minimum 2000 lumen suitable for Armstrong/Grid ceiling equivilant to Havells cat no. EDEGPRONEORDDL18WLED8587S . Minimum Two years warranty should be provided and certificate should be endorsed by OEM or his representative	1	Each	2055.35	INR	2055.35	INR Two Thousand & Fifty Five and Paise Thirty Five Only
259	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	1	Each	2826.99	INR	2826.99	INR Two Thousand Eight Hundred & Twenty Six and Paise Ninety Nine Only
260	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 including all connections equivalent to Havells no. VENUSNEO2X2PLR36WLED857STTR. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	232	Each	4576.31	INR	1061703.92	INR Ten Lakh Sixty One Thousand Seven Hundred & Three and Paise Ninety Two Only
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 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.ENDURASUNDOWNSL25WLED 765PASYBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	10	Each	2769.42	INR	27694.20	INR Twenty Seven Thousand Six Hundred & Ninety Four and Paise Twenty Only

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 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.ENDURASUNDOWNSL40WLED 765PASYBOPC. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	10	Each	4139.99	INR	41399.90	INR Forty One Thousand Three Hundred & Ninety Nine and Paise Ninety Only
263	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.ENDURASUNDOWNSL70WLED 765PASYBOTG. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	1	Each	6038.79	INR	6038.79	INR Six Thousand &Thirty Eight and Paise Seventy Nine Only
264	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.	10	Each	4703.57	INR	47035.70	INR Forty Seven Thousand &Thirty Five and Paise Seventy Only
265	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 including 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.	10	Each	5222.71	INR	52227.10	INR Fifty Two Thousand Two Hundred & Twenty Seven and Paise Ten Only
266	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.	10	Each	1773.56	INR	17735.60	INR Seventeen Thousand Seven Hundred & Thirty Five and Paise Sixty Only
267	SITC of recess mounting LED strip including driver equivalent to Havells cat no. FLEXISTRIP5MIP2024V/ 1ALED840MOD with Driver Cat No. CVDRIIVER24V1A. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	10	Each	342.39	INR	3423.90	INR Three Thousand Four Hundred & Twenty Three and Paise Ninety Only

268	SITC of recess mounting LED luminaire, minimum 2400 lumen as light source, suitable for POP/Gypsum Ceiling complete as required including 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.	1	Each	7369.97	INR	7369.97	INR Seven Thousand Three Hundred & Sixty Nine and Paise Ninety Seven Only
269	SITC of recess mounting LED Wall washer luminaire, minimum 2400 lumen as light source, suitable for POP/Gypsum Ceiling complete as required including all connections equivalent to Havells no. UNECOSNOOTDLR25WLED857S36. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	1	Each	3783.46	INR	3783.46	INR Three Thousand Seven Hundred & Eighty Three and Paise Forty Six Only
270	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life, made up of aluminium 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.	10	Each	4646.00	INR	46460.00	INR Forty Six Thousand Four Hundred & Sixty Only
271	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life, made up of aluminium 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.	10	Each	7687.11	INR	76871.10	INR Seventy Six Thousand Eight Hundred & Seventy One and Paise Ten Only
272	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.	1	Each	10816.09	INR	10816.09	INR Ten Thousand Eight Hundred & Sixteen and Paise Nine Only

273	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.	304	Each	1536.21	INR	467007.84	INR Four Lakh Sixty Seven Thousand & Seven and Paise Eighty Four Only
274	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.	1	Each	16938.71	INR	16938.71	INR Sixteen Thousand Nine Hundred & Thirty Eight and Paise Seventy One Only
275	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.	1	Each	22476.54	INR	22476.54	INR Twenty Two Thousand Four Hundred & Seventy Six and Paise Fifty Four Only
276	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.	1	Each	21495.83	INR	21495.83	INR Twenty One Thousand Four Hundred & Ninety Five and Paise Eighty Three Only
277	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.	5	Each	31268.59	INR	156342.95	INR One Lakh Fifty Six Thousand Three Hundred & Forty Two and Paise Ninety Five Only
278	SITC of Emergency LED tube fitting equivalent to wipro Cat No. Imperia Emergency LE23 EM with surface/ pendent mounted IP65 high efficiency 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.	1	Each	11200.90	INR	11200.90	INR Eleven Thousand Two Hundred and Paise Ninety Only

279	Installation / Dismantling of Geyser rating 25 -50Ltrs including cartage upto store /central store as per instruction of site-in-charge.	10	Each	502.98	INR	5029.80	INR Five Thousand & Twenty Nine and Paise Eighty Only
280	SITC of Water Heater(Geyser) rating of 25 ltrs 5 star complete with all connections.	10	Each	9611.16	INR	96111.60	INR Ninety Six Thousand One Hundred & Eleven and Paise Sixty Only
281	SITC of Water Heater(Geyser) rating of 35 ltrs 3-5 star complete with all connections.	10	Each	14119.80	INR	141198.00	INR One Lakh Forty One Thousand One Hundred & Ninety Eight Only
282	SITC of Water Heater(Geyser) rating of 50 ltrs 3-5 star complete with all connection	28	Each	14119.80	INR	395354.40	INR Three Lakh Ninety Five Thousand Three Hundred & Fifty Four and Paise Forty Only
283	SITC of Instant Water Heater(Geyser) rating of 3 ltrs complete with all connection	1	Each	5329.93	INR	5329.93	INR Five Thousand Three Hundred & Twenty Nine and Paise Ninety Three Only
284	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	1	Meter	2269.22	INR	2269.22	INR Two Thousand Two Hundred & Sixty Nine and Paise Twenty Two Only
285	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.	1	Each	240.31	INR	240.31	INR Two Hundred & Forty and Paise Thirty One Only
286	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 as per standard drawing.	1	Each	234.62	INR	234.62	INR Two Hundred & Thirty Four and Paise Sixty Two Only
287	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 replacing the damaged rubber reel, nuts and bolts with washers and safety pins, reinstalling the same as required.	1	Each	280.30	INR	280.30	INR Two Hundred & Eighty and Paise Thirty Only
288	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 removal the old if required.	1	Each	228.75	INR	228.75	INR Two Hundred & Twenty Eight and Paise Seventy Five Only

289	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.	1	Each	483.27	INR	483.27	INR Four Hundred & Eighty Three and Paise Twenty Seven Only
290	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.	1	Each	221.23	INR	221.23	INR Two Hundred & Twenty One and Paise Twenty Three Only
291	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.	3	Each	9314.22	INR	27942.66	INR Twenty Seven Thousand Nine Hundred & Forty Two and Paise Sixty Six Only
292	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).	1	Cu. M	8736.44	INR	8736.44	INR Eight Thousand Seven Hundred & Thirty Six and Paise Forty Four Only
293	Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.	15	Each	2858.81	INR	42882.15	INR Forty Two Thousand Eight Hundred & Eighty Two and Paise Fifteen Only
294	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.	1	Cu. M	702.35	INR	702.35	INR Seven Hundred & Two and Paise Thirty Five Only
295	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 of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	1	Cu.M	276.78	INR	276.78	INR Two Hundred & Seventy Six and Paise Seventy Eight Only

296	Providing Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand)	2	Cu. M	7583.72	INR	15167.44	INR Fifteen Thousand One Hundred & Sixty Seven and Paise Forty Four Only
297	12 mm Cement Plaster of Mix 1:6 (1 Cement : 6 Fine Sand)	1	Sq. m	354.45	INR	354.45	INR Three Hundred & Fifty Four and Paise Forty Five Only
298	Demolishing brick work in mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 Meters lead as per direction of Engineer-in-charge.	1	Cu.M.	2190.61	INR	2190.61	INR Two Thousand One Hundred & Ninety and Paise Sixty One Only
299	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 Meters lead of area beyond 3 sq.meters	1	Each	534.57	INR	534.57	INR Five Hundred & Thirty Four and Paise Fifty Seven Only
300	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 Meters lead as per direction of Engineer - in- charge	1	Cu.M.	3776.04	INR	3776.04	INR Three Thousand Seven Hundred & Seventy Six and Paise Four Only
301	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work	1	Sq. m	240.57	INR	240.57	INR Two Hundred & Forty and Paise Fifty Seven Only
302	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	1	Sq. m	165.93	INR	165.93	INR One Hundred & Sixty Five and Paise Ninety Three Only
303	Re-lettering with black Japan paint of approved brand and manufacture.	10	Per letter per cm height	6.54	INR	65.40	INR Sixty Five and Paise Forty Only
304	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.	10	P/Kg	142.16	INR	1421.60	INR One Thousand Four Hundred & Twenty One and Paise Sixty Only

305	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	50	Cu.M.	283.46	INR	14173.00	INR Fourteen Thousand One Hundred & Seventy Three Only
306	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 chollies, 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 Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	1	sqm	359.66	INR	359.66	INR Three Hundred & Fifty Nine and Paise Sixty Six Only
307	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).	50	sq-ft	83.83	INR	4191.50	INR Four Thousand One Hundred & Ninety One and Paise Fifty Only
308	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.	10	Each	1076.66	INR	10766.60	INR Ten Thousand Seven Hundred & Sixty Six and Paise Sixty Only
309	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.	10	Each	833.25	INR	8332.50	INR Eight Thousand Three Hundred & Thirty Two and Paise Fifty Only

310	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.	100	Each	804.97	INR	80497.00	INR Eighty Thousand Four Hundred & Ninety Seven Only
311	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.	300	Each	447.43	INR	134229.00	INR One Lakh Thirty Four Thousand Two Hundred & Twenty Nine Only
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 over redoxide primer after proper cleaning of rusted surface as required complete in all respects.	20	Each	327.24	INR	6544.80	INR Six Thousand Five Hundred & Forty Four and Paise Eighty Only
313	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.	20	Each	229.27	INR	4585.40	INR Four Thousand Five Hundred & Eighty Five and Paise Forty Only
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 One lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	5807.50	INR	5807.50	INR Five Thousand Eight Hundred & Seven and Paise Fifty Only
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 Two lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	7070.00	INR	7070.00	INR Seven Thousand & Seventy Only

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 Three lift Hooter controler. This box shall be detachable side with hinge and locking arrangement.	1	Each	8332.50	INR	8332.50	INR Eight Thousand Three Hundred & Thirty Two and Paise Fifty Only
317	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	9595.00	INR	9595.00	INR Nine Thousand Five Hundred & Ninety Five Only
318	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	INR	4817.70	INR Four Thousand Eight Hundred & Seventeen and Paise Seventy Only
319	--do-- but 2 core 1.5 mm ² copper armuored cable.	100	meter	513.08	INR	51308.00	INR Fifty One Thousand Three Hundred & Eight Only
320	--do-- but 3 core 1.5 mm ² copper armuored cable.	100	meter	539.34	INR	53934.00	INR Fifty Three Thousand Nine Hundred & Thirty Four Only
321	--do-- but 4 core 1.5 mm ² copper armuored cable.	10	meter	574.69	INR	5746.90	INR Five Thousand Seven Hundred & Forty Six and Paise Ninety Only
322	--do-- but 6 core 1.5 mm ² copper armuored cable.	10	meter	649.43	INR	6494.30	INR Six Thousand Four Hundred & Ninety Four and Paise Thirty Only
323	--do-- but 10 core 1.5 mm ² copper armuored cable.	10	meter	810.02	INR	8100.20	INR Eight Thousand One Hundred and Paise Twenty Only
324	--do-- but 3 core 2.5 mm ² copper armuored cable.	10	meter	609.03	INR	6090.30	INR Six Thousand & Ninety and Paise Thirty Only

325	--do-- but 4 core 4 mm ² copper armoured cable.	10	meter	776.69	INR	7766.90	INR Seven Thousand Seven Hundred & Sixty Six and Paise Ninety Only
326	--do-- but 2 core 6 mm ² copper un-armoured cable.	10	meter	666.60	INR	6666.00	INR Six Thousand Six Hundred & Sixty Six Only
327	--do-- but 4 core 6 mm ² copper armoured cable.	10	meter	936.27	INR	9362.70	INR Nine Thousand Three Hundred & Sixty Two and Paise Seventy Only
328	--do-- but 4 core 10 mm ² copper armoured cable.	10	meter	1283.71	INR	12837.10	INR Twelve Thousand Eight Hundred & Thirty Seven and Paise Ten Only
329	--do-- but 4 core 16 mm ² copper armoured cable.	10	meter	1698.82	INR	16988.20	INR Sixteen Thousand Nine Hundred & Eighty Eight and Paise Twenty Only
330	--do-- but 3.5 core 2.5 mm ² Aluminium armoured cable.	10	meter	492.88	INR	4928.80	INR Four Thousand Nine Hundred & Twenty Eight and Paise Eighty Only
331	--do-- but 3 core 4 mm ² Aluminium armoured cable.	10	meter	510.05	INR	5100.50	INR Five Thousand One Hundred and Paise Fifty Only
332	--do-- but 3 core 6 mm ² Aluminium armoured cable.	10	meter	539.34	INR	5393.40	INR Five Thousand Three Hundred & Ninety Three and Paise Forty Only
333	--do-- but 3 core 10 mm ² Aluminium armoured cable.	10	meter	580.75	INR	5807.50	INR Five Thousand Eight Hundred & Seven and Paise Fifty Only
334	--do-- but 3.5 core 25 mm ² Aluminium armoured cable.	10	meter	687.81	INR	6878.10	INR Six Thousand Eight Hundred & Seventy Eight and Paise Ten Only
335	--do-- but 3.5 core 50 mm ² Aluminium armoured cable.	10	meter	900.92	INR	9009.20	INR Nine Thousand & Nine and Paise Twenty Only
336	--do-- but 3.5 core 70 mm ² Aluminium armoured cable.	10	meter	1073.63	INR	10736.30	INR Ten Thousand Seven Hundred & Thirty Six and Paise Thirty Only
337	--do-- but 3.5 core 120 mm ² Aluminium armoured cable.	10	meter	1428.14	INR	14281.40	INR Fourteen Thousand Two Hundred & Eighty One and Paise Forty Only
338	--do-- but 3.5 core 185 mm ² Aluminium armoured cable.	10	meter	1905.87	INR	19058.70	INR Nineteen Thousand & Fifty Eight and Paise Seventy Only
339	--do-- but 4 core 10 mm ² Aluminium armoured cable.	10	meter	606.00	INR	6060.00	INR Six Thousand & Sixty Only
340	--do-- but 4 core 16 mm ² Aluminium armoured cable.	10	meter	648.42	INR	6484.20	INR Six Thousand Four Hundred & Eighty Four and Paise Twenty Only

341	--do-- but 4 core 25 mm ² Aluminium armoured cable.	10	meter	705.99	INR	7059.90	INR Seven Thousand & Fifty Nine and Paise Ninety Only
342	--do-- but 4 core 35 mm ² Aluminium armoured cable.	10	meter	805.98	INR	8059.80	INR Eight Thousand & Fifty Nine and Paise Eighty Only
343	--do-- but 4 core 50 mm ² Aluminium armoured cable.	10	meter	947.38	INR	9473.80	INR Nine Thousand Four Hundred & Seventy Three and Paise Eighty Only
344	--do-- but 4 core 70 mm ² Aluminium armoured cable.	10	meter	1141.30	INR	11413.00	INR Eleven Thousand Four Hundred & Thirteen Only
345	--do-- but 4 core 95 mm ² Aluminium armoured cable.	10	meter	1336.23	INR	13362.30	INR Thirteen Thousand Three Hundred & Sixty Two and Paise Thirty Only
346	--do-- but 4 core 120 mm ² Aluminium armoured cable.	10	meter	1575.60	INR	15756.00	INR Fifteen Thousand Seven Hundred & Fifty Six Only
347	--do-- but 4 core 150 mm ² Aluminium armoured cable.	10	meter	1796.79	INR	17967.90	INR Seventeen Thousand Nine Hundred & Sixty Seven and Paise Ninety Only
348	--do-- but 4 core 185 mm ² Aluminium armoured cable.	10	meter	2105.85	INR	21058.50	INR Twenty One Thousand & Fifty Eight and Paise Fifty Only
349	--do-- but 4 core 240 mm ² Aluminium armoured cable.	10	meter	2707.81	INR	27078.10	INR Twenty Seven Thousand & Seventy Eight and Paise Ten Only
350	--do-- but 4 core 300 mm ² Aluminium armoured cable.	10	meter	3288.56	INR	32885.60	INR Thirty Two Thousand Eight Hundred & Eighty Five and Paise Sixty Only
351	--do-- but 4 core 400 mm ² Aluminium armoured cable.	10	meter	4050.10	INR	40501.00	INR Forty Thousand Five Hundred & One Only
352	Supply and laying of Copper conductor, XLPE insulated, Un-armoured, PVC sheathed cable, 1100V grade, 2 core 1.5 mm ² 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	meter	128.27	INR	1282.70	INR One Thousand Two Hundred & Eighty Two and Paise Seventy Only
353	--do-- but 3 core 1.5 mm ² Copper armoured cable.	10	meter	185.84	INR	1858.40	INR One Thousand Eight Hundred & Fifty Eight and Paise Forty Only
354	--do-- but 4 core 1.5 mm ² Copper armoured cable.	10	meter	221.19	INR	2211.90	INR Two Thousand Two Hundred & Eleven and Paise Ninety Only

355	--do-- but 6 core 1.5 mm ² Copper armuored cable.	10	meter	295.93	INR	2959.30	INR Two Thousand Nine Hundred & Fifty Nine and Paise Thirty Only
356	--do-- but 10 core 1.5 mm ² Copper armuored cable.	10	meter	456.52	INR	4565.20	INR Four Thousand Five Hundred & Sixty Five and Paise Twenty Only
357	--do-- but 3 core 2.5 mm ² Copper armuored cable.	10	meter	255.53	INR	2555.30	INR Two Thousand Five Hundred & Fifty Five and Paise Thirty Only
358	--do-- but 4 core 4 mm ² Copper armuored cable.	10	meter	423.19	INR	4231.90	INR Four Thousand Two Hundred & Thirty One and Paise Ninety Only
359	--do-- but 2 core 6 mm ² Copper armuored cable.	10	meter	313.10	INR	3131.00	INR Three Thousand One Hundred & Thirty One Only
360	--do-- but 4 core 6 mm ² Copper Un-armuored cable	10	meter	582.77	INR	5827.70	INR Five Thousand Eight Hundred & Twenty Seven and Paise Seventy Only
361	--do-- but 4 core 10mm ² Copper armuored cable.	10	meter	930.21	INR	9302.10	INR Nine Thousand Three Hundred & Two and Paise Ten Only
362	--do-- but 4 core 16 mm ² Copper armuored cable.	10	meter	1345.32	INR	13453.20	INR Thirteen Thousand Four Hundred & Fifty Three and Paise Twenty Only
363	--do-- but 3 core 2.5 mm ² Aluminium armuored cable.	10	meter	139.38	INR	1393.80	INR One Thousand Three Hundred & Ninety Three and Paise Eighty Only
364	--do-- but 3 core 4 mm ² Aluminium armuored cable.	10	meter	156.55	INR	1565.50	INR One Thousand Five Hundred & Sixty Five and Paise Fifty Only
365	--do-- but 3 core 6 mm ² Aluminium armuored cable.	10	meter	185.84	INR	1858.40	INR One Thousand Eight Hundred & Fifty Eight and Paise Forty Only
366	--do-- but 3 core 10 mm ² Aluminium armuored cable.	10	meter	227.25	INR	2272.50	INR Two Thousand Two Hundred & Seventy Two and Paise Fifty Only
367	--do-- but 3.5 core 25 mm ² Aluminium armuored cable.	10	meter	334.31	INR	3343.10	INR Three Thousand Three Hundred & Forty Three and Paise Ten Only
368	--do-- but 3.5 core 50 mm ² Aluminium armuored cable.	10	meter	584.79	INR	5847.90	INR Five Thousand Eight Hundred & Forty Seven and Paise Ninety Only
369	--do-- but 3.5 core 70 mm ² Aluminium armuored cable.	10	meter	722.15	INR	7221.50	INR Seven Thousand Two Hundred & Twenty One and Paise Fifty Only
370	--do-- but 3.5 core 120 mm ² Aluminium armuored cable.	10	meter	1096.86	INR	10968.60	INR Ten Thousand Nine Hundred & Sixty Eight and Paise Sixty Only

371	--do-- but 3.5 core 185 mm ² Aluminium armuored cable.	10	meter	1592.77	INR	15927.70	INR Fifteen Thousand Nine Hundred & Twenty Seven and Paise Seventy Only
372	--do-- but 4 core 10 mm ² Aluminium armuored cable.	10	meter	252.50	INR	2525.00	INR Two Thousand Five Hundred & Twenty Five Only
373	--do-- but 4 core 16 mm ² Aluminium armuored cable.	10	meter	294.92	INR	2949.20	INR Two Thousand Nine Hundred & Forty Nine and Paise Twenty Only
374	--do-- but 4 core 25 mm ² Aluminium armuored cable.	10	meter	352.49	INR	3524.90	INR Three Thousand Five Hundred & Twenty Four and Paise Ninety Only
375	--do-- but 4 core 35 mm ² Aluminium armuored cable.	10	meter	452.48	INR	4524.80	INR Four Thousand Five Hundred & Twenty Four and Paise Eighty Only
376	--do-- but 4 core 50 mm ² Aluminium armuored cable.	10	meter	595.90	INR	5959.00	INR Five Thousand Nine Hundred & Fifty Nine Only
377	--do-- but 4 core 70 mm ² Aluminium armuored cable.	10	meter	789.82	INR	7898.20	INR Seven Thousand Eight Hundred & Ninety Eight and Paise Twenty Only
378	--do-- but 4 core 95 mm ² Aluminium armuored cable.	10	meter	984.75	INR	9847.50	INR Nine Thousand Eight Hundred & Forty Seven and Paise Fifty Only
379	--do-- but 4 core 120 mm ² Aluminium armuored cable.	10	meter	1227.15	INR	12271.50	INR Twelve Thousand Two Hundred & Seventy One and Paise Fifty Only
380	--do-- but 4 core 150 mm ² Aluminium armuored cable.	10	meter	1448.34	INR	14483.40	INR Fourteen Thousand Four Hundred & Eighty Three and Paise Forty Only
381	--do-- but 4 core 185 mm ² Aluminium armuored cable.	10	meter	1757.40	INR	17574.00	INR Seventeen Thousand Five Hundred & Seventy Four Only
382	--do-- but 4 core 240 mm ² Aluminium armuored cable.	10	meter	2364.41	INR	23644.10	INR Twenty Three Thousand Six Hundred & Forty Four and Paise Ten Only
383	--do-- but 4 core 300 mm ² Aluminium armuored cable.	10	meter	2945.16	INR	29451.60	INR Twenty Nine Thousand Four Hundred & Fifty One and Paise Sixty Only
384	--do-- but 4 core 400 mm ² Aluminium armuored cable.	10	meter	3706.70	INR	37067.00	INR Thirty Seven Thousand & Sixty Seven Only

385	Supply and laying of Copper conductor, XLPE insulated, Un-armoured, PVC sheathed cable, 1100V grade, 2 core 1.5 mm ² 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	INR	1363.50	INR One Thousand Three Hundred & Sixty Three and Paise Fifty Only
386	--do-- but 2 core 1.5 mm ² Copper armoured cable.	10	meter	167.66	INR	1676.60	INR One Thousand Six Hundred & Seventy Six and Paise Sixty Only
387	--do-- but 3 core 1.5 mm ² Copper armoured cable.	10	meter	193.92	INR	1939.20	INR One Thousand Nine Hundred & Thirty Nine and Paise Twenty Only
388	--do-- but 4 core 1.5 mm ² Copper armoured cable.	10	meter	229.27	INR	2292.70	INR Two Thousand Two Hundred & Ninety Two and Paise Seventy Only
389	--do-- but 6 core 1.5 mm ² Copper armoured cable.	10	meter	304.01	INR	3040.10	INR Three Thousand & Forty and Paise Ten Only
390	--do-- but 10 core 1.5 mm ² Copper armoured cable.	10	meter	464.60	INR	4646.00	INR Four Thousand Six Hundred & Forty Six Only
391	--do-- but 3 core 2.5 mm ² Copper armoured cable.	10	meter	263.61	INR	2636.10	INR Two Thousand Six Hundred & Thirty Six and Paise Ten Only
392	--do-- but 4 core 4 mm ² Copper armoured cable.	10	meter	431.27	INR	4312.70	INR Four Thousand Three Hundred & Twelve and Paise Seventy Only
393	--do-- but 2 core 6 mm ² Copper armoured cable.	10	meter	321.18	INR	3211.80	INR Three Thousand Two Hundred & Eleven and Paise Eighty Only
394	--do-- but 4 core 6 mm ² Copper armoured cable.	10	meter	590.85	INR	5908.50	INR Five Thousand Nine Hundred & Eight and Paise Fifty Only
395	--do-- but 4 core 10 mm ² Copper armoured cable.	10	meter	938.29	INR	9382.90	INR Nine Thousand Three Hundred & Eighty Two and Paise Ninety Only
396	--do-- but 4 core 16 mm ² Copper armoured cable.	10	meter	1353.40	INR	13534.00	INR Thirteen Thousand Five Hundred & Thirty Four Only
397	--do-- but 3 core 2.5 mm ² Aluminium armoured cable.	10	meter	147.46	INR	1474.60	INR One Thousand Four Hundred & Seventy Four and Paise Sixty Only
398	--do-- but 3 core 4 mm ² Aluminium armoured cable.	10	meter	164.63	INR	1646.30	INR One Thousand Six Hundred & Forty Six and Paise Thirty Only

399	--do-- but 3 core 6 mm ² Aluminium armoured cable.	10	meter	193.92	INR	1939.20	INR One Thousand Nine Hundred & Thirty Nine and Paise Twenty Only
400	--do-- but 3 core 10 mm ² Aluminium armoured cable.	10	meter	235.33	INR	2353.30	INR Two Thousand Three Hundred & Fifty Three and Paise Thirty Only
401	--do-- but 4 core 10 mm ² Aluminium armoured cable.	10	meter	260.58	INR	2605.80	INR Two Thousand Six Hundred & Five and Paise Eighty Only
402	--do-- but 4 core 16 mm ² Aluminium armoured cable.	10	meter	303.00	INR	3030.00	INR Three Thousand & Thirty Only
403	--do-- but 4 core 25 mm ² Aluminium armoured cable.	10	meter	360.57	INR	3605.70	INR Three Thousand Six Hundred & Five and Paise Seventy Only
404	--do-- but 4 core 35 mm ² Aluminium armoured cable.	10	meter	460.56	INR	4605.60	INR Four Thousand Six Hundred & Five and Paise Sixty Only
405	--do-- but 4 core 50 mm ² Aluminium armoured cable.	10	meter	631.25	INR	6312.50	INR Six Thousand Three Hundred & Twelve and Paise Fifty Only
406	--do-- but 4 core 70 mm ² Aluminium armoured cable.	10	meter	825.17	INR	8251.70	INR Eight Thousand Two Hundred & Fifty One and Paise Seventy Only
407	--do-- but 4 core 95 mm ² Aluminium armoured cable.	10	meter	1020.10	INR	10201.00	INR Ten Thousand Two Hundred & One Only
408	--do-- but 4 core 120 mm ² Aluminium armoured cable.	10	meter	1265.53	INR	12655.30	INR Twelve Thousand Six Hundred & Fifty Five and Paise Thirty Only
409	--do-- but 4 core 150 mm ² Aluminium armoured cable.	10	meter	1486.72	INR	14867.20	INR Fourteen Thousand Eight Hundred & Sixty Seven and Paise Twenty Only
410	--do-- but 4 core 185 mm ² Aluminium armoured cable.	10	meter	1795.78	INR	17957.80	INR Seventeen Thousand Nine Hundred & Fifty Seven and Paise Eighty Only
411	--do-- but 4 core 240 mm ² Aluminium armoured cable.	10	meter	2415.92	INR	24159.20	INR Twenty Four Thousand One Hundred & Fifty Nine and Paise Twenty Only
412	--do-- but 4 core 300 mm ² Aluminium armoured cable.	10	meter	2996.67	INR	29966.70	INR Twenty Nine Thousand Nine Hundred & Sixty Six and Paise Seventy Only
413	--do-- but 4 core 400 mm ² Aluminium armoured cable.	10	meter	3758.21	INR	37582.10	INR Thirty Seven Thousand Five Hundred & Eighty Two and Paise Ten Only
414	--do-- but 3.5 core 25 mm ² Aluminium armoured cable.	10	meter	342.39	INR	3423.90	INR Three Thousand Four Hundred & Twenty Three and Paise Ninety Only

415	--do-- but 3.5 core 50 mm ² Aluminium armuored cable.	10	meter	584.79	INR	5847.90	INR Five Thousand Eight Hundred & Forty Seven and Paise Ninety Only
416	--do-- but 3.5 core 70 mm ² Aluminium armuored cable.	10	meter	757.50	INR	7575.00	INR Seven Thousand Five Hundred & Seventy Five Only
417	--do-- but 3.5 core 120 mm ² Aluminium armuored cable.	10	meter	1135.24	INR	11352.40	INR Eleven Thousand Three Hundred & Fifty Two and Paise Forty Only
418	--do-- but 3.5 core 185 mm ² Aluminium armuored cable.	10	meter	1631.15	INR	16311.50	INR Sixteen Thousand Three Hundred & Eleven and Paise Fifty Only
419	Painting and Lettering of portion of Cable route marker appearing 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)	50	Each	465.61	INR	23280.50	INR Twenty Three Thousand Two Hundred & Eighty and Paise Fifty Only
420	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 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.	20	sq-ft	2347.24	INR	46944.80	INR Forty Six Thousand Nine Hundred & Forty Four and Paise Eighty Only
421	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 feeder nomenclature (if required) as per direction of site-in-charge.	20	sq-ft	2463.39	INR	49267.80	INR Forty Nine Thousand Two Hundred & Sixty Seven and Paise Eighty Only

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 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	INR	100232.40	INR One Lakh Two Hundred & Thirty Two and Paise Forty Only
423	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	INR	113968.40	INR One Lakh Thirteen Thousand Nine Hundred & Sixty Eight and Paise Forty Only
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 400 mm depth duly powder coated spray painted with separate chamber for instruments (e.g. ampere meter, volt meter, frequency	20	sq-ft	5568.13	INR	111362.60	INR One Lakh Eleven Thousand Three Hundred & Sixty Two and Paise Sixty Only

	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.						
425	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	INR	123361.40	INR One Lakh Twenty Three Thousand Three Hundred & Sixty One and Paise Forty Only
426	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	20	sq-ft	6312.50	INR	126250.00	INR One Lakh Twenty Six Thousand Two Hundred & Fifty Only

	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.						
427	SITC of moulded 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 accessories and all connections as required.	1	Each	1525.10	INR	1525.10	INR One Thousand Five Hundred & Twenty Five and Paise Ten Only
428	SITC of moulded case CBCT rectangular size 300X50mm, current setting range 30 mAmp- 30 Amp equivalent to L&T make & cat no. 17H9NNWN0, complete with mounting accessories and all connections as required.	1	Each	7643.68	INR	7643.68	INR Seven Thousand Six Hundred & Forty Three and Paise Sixty Eight Only
429	SITC of Panel Mounted Earth Leakage Relay (ELR) 240-415VAC/DC, 1 C/O (Pre Alarm) +1 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 accessories and all connections as required.	1	Each	3786.49	INR	3786.49	INR Three Thousand Seven Hundred & Eighty Six and Paise Forty Nine Only
430	SITC of Din Rail Mounted Earth Leakage Relay 220-415VAC, Manual/ Auto reset, current setting range 30mAmp- 30Amp equivalent to L&T make & cat no. 17G745GF2/ 17G745KF2, complete with mounting accessories and all connections as required.	1	Each	3472.38	INR	3472.38	INR Three Thousand Four Hundred & Seventy Two and Paise Thirty Eight Only
431	SITC of LED light fitting BED Side Lamp with accessories and prewired equivalent to Havells Cat no. LEDREADELUX Bedside Light 4W Cir. White	5	Each	1468.54	INR	7342.70	INR Seven Thousand Three Hundred & Forty Two and Paise Seventy Only
432	SITC of LED Integral Flood light fitting, Energy saving, environmental friendly, long life, made up of aluminium pressure die cast housing with toughened glass / polycarbonate cover, minimum 15000 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. JETALEGANZAFLS150WLED730P60DTOTG along with mounting brackets assembly. Minimum Two years warranty should be provided. Warranty certificate should be endorsed by OEM or his representative.	1	Each	10282.81	INR	10282.81	INR Ten Thousand Two Hundred & Eighty Two and Paise Eighty One Only

433	SITC of 240 V, 450 MM sweep, heavy duty air circulator wall fan including making good finish the damage with plaster and all masonry work, connection with 1.5 mm ² PVC insulated, copper conductor, single core etc.	1	Each	7176.05	INR	7176.05	INR Seven Thousand One Hundred & Seventy Six and Paise Five Only
434	Supplying and fixing of 63A , 415V TPN Industrial type socket outlet (three phase+ Neutral + Earth), with 4 pole and earth, metal enclosed plug top along with 63 A "C" curve 4PMCB, 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.	2	Each	14997.49	INR	29994.98	INR Twenty Nine Thousand Nine Hundred & Ninety Four and Paise Ninety Eight Only
Total in Figures						19088930.22	INR One Crore Ninety Lakh Eighty Eight Thousand Nine Hundred & Thirty and Paise Twenty Two Only
Quoted Rate in Figures			Select			0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					

Note:

1. In case the actual applicable GST rate in the BoQ is different from 18% then payment shall be made on the actual applicable GST rate while keeping the basic rate same.
2. 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.

Signature and stamp of the bidder

**Sd-
Institute Engineer, IWD, IIT Roorkee**