

**ESTATE (E & M) WORKS SECTION
INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR**

Notice Inviting Quotation

Quotation No: - IIT/E/E&M/2017-18/Qtn/09

Date:-.04.09.2017

Sealed quotations on item rate basis are invited by EE (EW) from enlisted and approved Electrical contractors of IIT Kharagpur/CPWD/MES/WBPWD/Kharagpur municipality and Other bonafide contractors having valid TIN/VAT, PAN, Updated trade license and updated Electrical contractor license for below mentioned work. The approximate cost of the work is ₹ 46,414/- (Rupees Forty six thousand four hundred fourteen only)

NAME OF THE WORK : **Electrical Works for renovation of boiler room into a academic laboratory with dismantling of existing old electrical panels without discontinuing the power to essential loads.**

ISSUE OF QUOTATION : - **FROM 04.09.2017 to 13.09.2017**

LAST DATE OF SUBMISSION : - **13.09.2017 UPTO 3:30 PM**

TENDER OPENING DATE : - **13.09.2017 TIME: 4:30 PM**

Price of the Tender Document: ₹.500/-, By DD, in favour of IIT Kharagpur, Payable at Kharagpur from any Nationalized Bank. Tender Documents can be obtained from the Office of Executive Engineer (EW) or the tender documents can be downloaded from the Institute website www.iitkgp.ac.in.

Sr.Executive Engineer (EW)

Copy to:-

- 1) Prof. in-Charge (Electrical Works)
- 2) Registrar, I.I.T Kharagpur.
- 3) Executive Engineer (Civil)
- 4) Dy. Registrar (F &A)
- 5) Notice Board, EPDS/Hall Service Centre/Campus Maintenance.
- 6) Notice Board, Estate (E &M) Head office, Old Building
- 7) Office file.

TENDER NOTICE

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The work to be completed within **30 (thirty) days** from the date of acceptance of work order placed by IIT Kharagpur

1. The Bidders are required to complete quotation, quote rate as per the schedule of quantities and sign on each page of tender documents before submission. The quotation will not be accepted other than our format. The completed set is to be enclosed in a sealed envelope addressed to:

**Sr.Executive Engineer (EW).
Indian Institute of Technology,Kharagpur
Kharagpur -721302 (WB)**

Tenders will be received up to 3.30 PM on 13.09.2017 with all necessary documents i.e. VAT, PAN, Electrical contractor license and updated Trade licence in the office of Estate (E & M), Old Building, IIT Kharagpur.

Agency has to submit the self-attested copy of the documents .Without these documents tender will not be accepted.

2. No tender will be received after the expiry of the date/ time notified for receiving tenders under any circumstances whatsoever.
3. The tender will be opened at 4.30 PM on 13.09.2017 at above address in the presence of authorized representative of Bidder and Tender opening committee of IIT Kharagpur
4. Tender shall remain valid for acceptance for a period of 90 days from the notified last date of tender submission.
5. The price should be for the complete finished item of work and include all labour charges, material, taxes, overhead, duties, cess etc.
6. Each tender shall be accompanied by **Earnest Money of ₹ 930/-(Rupees Nine hundred thirty only) in the form of Demand Draft in favour of, IIT Kharagpur, payable at Kharagpur or by RTGS or NEFT to Institute A/c (Grant Savings 10224336884-SB, IFSC Code SBIN000202). Tenders without Earnest Money shall be summarily rejected.**
7. The earnest money deposited shall not carry any interest and will be refunded to the unsuccessful tenderers. Earnest money paid by the successful contractor will be retained by the IIT Kharagpur as a part of security deposit.
8. Institute will deduct a sum at the rate of 10% of the gross amount of each running bill of the Contractor till the sum along with the sum already deposited as earnest money, will amount to security deposit of 10 % of the bid value of the work. Security deposit will be refunded to bidder after successful completion of warranty period of **Six months.**

9. All tenders in which any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected.
10. The Institute reserves the right to reject any or all prospective applicants without assigning any reason .If any information furnished by the applicant is found incorrect at a later stage, he shall be debarred from tendering and taking up of any work in IIT Kharagpur.
11. The quantities given in BOQ against each items may vary i.e. increase or decrease as per site requirement, but rate will be firm.
12. This tender notice shall form part of the contract documents.
13. Penalty will be imposed against delay of work as per the Institute rule.
14. The agency is fully responsible for the safety of working personnel and has to follow all government safety rules.
15. Tenderers 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, laying route, the form and nature of site, the means to access the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risk, 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 charges consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost of 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 bid documents. Submission of tender by a tenderer implies that he has read this notice and all other tender documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having bearing on the execution of the work.
16. All the Govt. labour rules, regulations and latest Indian Electricity Rule are followed by the contractor while executing the Electrical work.
17. All statutory deduction will be deducted as per government rules.

Sr. Executive Engineer(EW)

Bill of Quantity

Electrical Works for renovation of boiler room into a academic laboratory with dismantling of existing old electrical panels without discontinuing the power to essential loads.

Sl.no.	Description	Unit	Qty.	Unit Rate	Total
1	Supply, installation, testing and commissioning of floor mounted dust and vermin proof Compartmentalised, cubical, modular type outdoor feeder pillar box made out of 10SWG CRCA sheet steel enclosure with conical top canopy and louvers strictly as per ANX-1 attached herewith.	no	1		
2	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. (Cable: Deptt. Supply)				
a)	Above 35sq.mm. And Upto 95 sq. mm.	mtr	30		
3	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required along with 2no 8SWG GI wire as earth connection and with saddling @ 3nos/mtr. (Cable: Deptt. Supply)				
a)	Above 35sq.mm. And Upto 95 sq. mm.	mtr	10		
4	Supply & making indoor end termination with brass compression gland and AL/Cu lugs of following size of PVC insulated and PVC sheathed/XLPE AL. conductor cable of gr.1.1kv as required. Dowell's make.				
a)	Upto 3.5 core x35 sq.mm.	no	4		
b)	Upto 3.5 core x50 sq.mm.	no	4		

5	Earthing with 50mm dia GI pipe 3.64 mm thick x3.0Mtrs.long and 13mm diax80mm long GI bolt double nuts,double washers incl. S&F 15mm dia GI pipe protection (1mtr long) driven to an average depth of 3.65mtrs. below gr. Level &restoring surface duly rammed. Including extra treatment of soil by using salt and charcoal and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.For any type of soil morrum/hard Pipe:-TATA/Bansal medium gauge pipe .	no	1		
6	S+F earth busbar of G.I. flat 25mmx 6mm on wall having clearance of 6mm from wall incl. providing drilled holes on busbar complete with G.I. blots, nuts, washers, spacing insulators etc as reqd.	No	1		
7	Providing and fixing 25mmx5mm G.I strip on surface or in recess for connections etc. as required with welding joints and anti corrosion painting on welding part.	mtr	15		
8	Dismantling of old panel and wiring as required and deposit the dismantled material to site store as instructed	no	1		

Please quote your GST separately

Signature of contractor

Specification of Feeder Pillar

ANX-1

Supply, erection, testing and commissioning of Outdoor type Feeder Pillar box. It should comprise of MCCBs and MCBs of 415 Volt as incomer and outgoing with extended bus bar for connection of incoming cable and outgoing cables. The feeder pillar should be made out of 10 SWG CRCA sheet steel, compartmentalised, modular fabricated with powder coated painting of colour OPALINE GREEN, with conical top canopy and both side louvers.

a) **I/C: 100 amps, 4p, MCCB – 1 no** as incomer **Outgoings: - a) 63 amps MCB, 4 pole, - 4nos** The I/C and O/G switches should be mutually coupled with 415 volts TPN 150 amps Electrolytic grade AL bus bars of 50 KA symmetrical fault current withstanding capacity. **BUS-BAR: TPN aluminium Bus-Bar of 150 Amps capacity, electrolytic grade Aluminium/Copper with coloured insulated and sleeved having 50 kA symmetrical fault current withstanding capacity.**

Make: MCCB: Legrand, Siemens, Schneider

Factory Inspection: Factory inspection and testing are to be arranged by the contractor for IIT officials with conveyance, fooding and lodging.

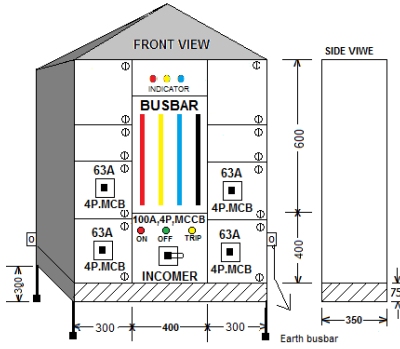
Approx. size of PCC panel: 1000 mm x 1000 mm x 350 mm

Erection: The contractors are liable to perform all the arrangement for erecting the feeder pillar on masonry platform at a height 2.5 fit from the ground level, including **all civil works as necessary**, including supply of all materials for complete execution of the job.

Note: 1. The contractor is required to submit the **electrical G.A and SLD** for approval by the Department before placing order for fabrication

2. Arrangement of testing and checking of PCC panel is to be arranged by the contractor at manufacturing units.

Outdoor type Double door Fiddler Pillar



General Notes:-

1. All dimension are in mm unless otherwise stated.
2. Panel shall be of 14 SWG (2mm) thick CRCA sheet steel.
3. Degree of protection: IP:52
4. All opening shall be covered by rubber gasket
5. Each door shall be earthed with pvc insulated multistrand copper wire.
6. 19.05x6.35 mm AL busbar for phase & neutral
7. 25x6x1 no GI for earth bar
8. Connection between busbar and MCCB (only Incomer) shall be connected by spreader link
9. Arrangement for cable entry & exit should be from top & bottom with detachable gland plate.

Prepared by

Checked by

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