

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

Notice Inviting Quotation

Quotation No: - IIT/E/E&M/2018-19/Qtn/48

Date:- 05.11.2018

Sealed quotations on item rate basis are invited by Sr. EE (EW) from limited enlisted and approved Electrical contractors of IIT Kharagpur /CPWD/MES/WBPWD/Kharagpur municipality and Other bonafide contractors having valid GST, PAN, Updated trade license and updated Electrical contractor license work completion report and make list in the given format for below mentioned work. The approximate cost of the work Rs. **88,243.00/-**-(Rupees Eighty Eight Thousand Two Hundred Forty Three only)

NAME OF THE WORK : Arrangement of DG power facility to Bio-Science laboratory in Sir J.C. Bose laboratory complex in the S R Complex premises at IIT Kharagpur.

ISSUE OF QUOTATION : FROM 05.11.2018 to 22.11.2018

LAST DATE OF SUBMISSION : 22.11.2018 UPTO 3:30 PM

TENDER OPENING DATE : 22.11.2018 TIME: 4:30 PM

Sr. Executive Engineer (EW)

Copy to :

- 1) Prof. in-Charge (Electrical Works)
- 2) Prof. in -Charge (IIC) :-
- 3) Registrar, I.I.T Kharagpur.
- 4) Chief Engineer
- 5) Superintending Engineer (Elect.)
- 6) Sr. Executive Engineer (Civil)
- 7) Sr. Executive Engineer (E&M)
- 8) Dy. Registrar (F &A)
- 9) Dy. Registrar (S&P)
- 10) Notice Board, EPDS.
- 11) Notice Board, Estate (E &M) Head office, Old Building
- 12) Office file.

TENDER NOTICE

Sealed quotations on item rate basis are invited by Sr. EE (EW) from limited enlisted and approved Electrical contractors of IIT Kharagpur /CPWD/MES/WBPWD/Kharagpur municipality and Other bonafide contractors having valid GST, PAN, Updated trade License . The approximate cost of the work is Rs. **88,243.00/-**(Rupees Eighty Eight Thousand Two Hundred Forty Three only)

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 22.11.2018 with all necessary documents i.e. GST,PAN, Electrical contractor license and updated Trade license work completion report and make list in the given format 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 **22.11.2018** 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 120 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 ₹ 1770/- (Rupees One Thousand Seven Hundred Seventy 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 item may vary i.e. increase or decrease as per site requirement, but rate will be firmed.
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.

Electrical safety at work site

The contractor will identify one of the supervisors for taking care of implementation of Safety systems.

The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

1. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-ordinator insists eye protection has to be provided.
2. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.
3. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.
4. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.
5. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.
6. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tre-passers from entering the area.
7. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
8. All electrical connections shall be made using 3 or 5 core cables, having a earth wire.
9. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.
10. A tools and tackles inspection register must be maintained and updated regularly.
11. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day.
12. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and / or safety personnel to be corrected on priority basis.
13. No children shall be allowed to enter the workplace.
14. All the lifting tools and tackles shall be stored properly when not in use.

15. Clamps shall be used on Return cables to ensure proper earthing for welding works.
16. All the pressure gauges used in gas cutting apparatus shall be in good working condition.
17. Proper eye washing facilities shall be made in areas where chemicals are handled.
18. Connectors and hose clamps are used for making welding hose connections.
19. All underground cables for supplying construction power shall be routed using conduit pipes.
20. Spill trays shall be used to contain the oil spills while transferring / storing them.
21. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.
22. Non-compliance to above shall invite a penalty recovery.

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
Office of the Executive Engineer (Electrical)
Electric Power Distribution Section

Name of the Work: Arrangement of DG power facility to Bio-Science laboratory in Sir J.C. Bose laboratory complex in the S R Complex premises at IIT Kharagpur.

SI No	Description	Unit	Qty.	Rate	Amount
1(a)	Supply of 1.1 kv grade, XLPE insulated, A2XFY as per IS:7098 part I LT armoured ALUMINIUM cable :- 3.5 core 50 sq mm , make : Finolex/Havells/Polycab/R.R.cable.	Mtr	150		
1(b)	Laying of one number PVC insulated & PVC sheathed/XLPE power cable of 1.1 KV of 50 sq mmx 3.5c grade cable directly in ground including excavation, sand cushioning, protective covering & refilling the trench .	Mtr	40		
1(c)	Laying of one number of 3.5c x 50 sq mm PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.	Mtr	60		
1(d)	Laying and fixing of one number 3.5 c x50 sq mm PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required (clamped with 25x3mm, of MS flat clamp).	Mtr	25		
1(e)	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5 c X 50 sq mm size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required. Make-ARUN/Dowells.	Each	2		
2(a)	Supplying and fixing double door Vertical TPN MCB DB for MCCB incomer with IP-43 protection,- VTPN DPX3 160 MCCB DB , suitable for Flush Mounting with 250A Copper Busbar for each phase and neutral link . Up to 160A, 8way Enclosure (Make Legrand Cat No. 5077-47) . Make : Legrand,/Seimens/Hager/L&T/Schneider .	Each	1		
2(b)	I/C:Supplying and fixing of 125 A , 415 V Four pole MCCB of Breaking capacity 16 KA (Legrand ,Cat No. 4200-16)with fixed thermal and fixed magnetic/ adjustable thermal and fixed magnetic setting in existing DBs/ enclosure and necessary connection with spreder link Make :Legrand/Seimens/L&T/ Schneider/Hager.	Each	2		
2(c)	O/G : 6 – 32 A ratings, SP MCB, “C” curve, 10 kA breaking capacity, (Legrand ,Cat No. 4085- 87 to 4085-95)Make:Legrand/seimens/L&T/Schneider /hager.	Each	10		
2(d)	Supplying and fixing 63A, TP MCB rating, 415 V, 10 kA, “C” curve, (Legrand,Cat. No. 4086-61) MCB, suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.Make Legrand/Hager/L&T/Seimens/Schneider.	Each	4		
2(e)	Aluminium lugs for 50 sq. mm cable , Make : Dowells	Each	10		

2(f)	Wiring for circuit / sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor (6 sqmm), single core cable in surface / recessed medium class PVC conduit as required .Make-Wire:- Finolex/Havells/RRKabel/Polycab.Pipe:- (MMS) Presto plast/Precision /Switch/ Socket/Blank plate/Crab Tree Thames(Sapphire) , Legrand (Myrius) /MK wrapar and plus . 2 X 6 sq mm + 1 X 6 sq mm for E.C.C	Mtr	20		
3	50 mm dia. G.I. pipe (medium class), make: Tata , Jindal, Bansal ,etc.	Mtr	6		
	Total :				

Total in words inclusive GST:

(Please mention applicable GST %)

N.B:1) All materials to be used after prior approval of Engineer in charge.

Make list format

Name of the Work: Arrangement of DG power facility to Bio-Science laboratory in Sir J.C. Bose laboratory complex in the S R Complex premises at IIT Kharagpur.

Sl. No.	Description of items	Approved makes proposed by the contractor	Makes approved by the Department
1.			
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Signature of E (EW)

Signature of Sr.E.E.(EW)

Signature of S.E (E&M)