



ESTATE (E &M) WORKS SECTION
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR 721302

NIT No. : IIT/E/E&M/T/44/2018-19
Dated : 11.10.2018

TENDER NOTICE

The Sr. Executive Engineer (Electrical Works), IIT Kharagpur invites sealed item rate tenders in **Single Bid System** containing Technical Bid & Financial Bid from enlisted and approved Electrical contractors of IIT Kharagpur/CPWD/MES/WBPWD/Kharagpur municipality and Other bonafide contractors of the Indian Institute of Technology, Kharagpur/CPWD /WBPWD/MES/Railways (SER)/Kharagpur Municipality/PSUs and other bonafied agencies meeting the minimum qualification criteria for the following Work:

Sl. No.	Name of Work	Estimated Amount (₹)	Earnest Money (₹)	Cost of Tender Document (₹)	Completion Time
1	Electrical Renovation Work in Institute Main Building, different Departments/Centres/Schools etc. under Institute Academic area at IIT Kharagpur.	1,71,424.00/-	3430/- (To be submitted in a separate envelope)	500.00 (non-refundable)	90 days

The above estimate, however, is given merely as a rough guide.

TENDER DOCUMENTS can be downloaded from the Institute website www.iitkgp.ac.in & <https://eprocure.gov.in>. Requisite Tender fee (non-refundable) to be paid by demand draft in favour of "IIT Kharagpur" on any nationalized Bank of India payable at Kharagpur Branch as stated above at the time of submission of Bid. For any amendment /corrigendum please visit the Institute website www.iitkgp.ac.in & <https://eprocure.gov.in>.

The following documents to be submitted at the time of submission of bid:

- GST
- PAN
- Work Completion Certificates justifying eligibility criteria
- Updated Electrical Contractor Licence
- Updated Trade Licence
- Make list format to be submitted along with bid (Format enclosed).

Eligibility criteria:

Contractors who fulfill the following requirement shall be eligible to apply :

Three works each costing not less than 40% of estimated cost or two works each costing not less than 60% of estimated cost or one work costing not less than 80% of estimated cost executed under Central Government /State Government/Central Autonomous Body/Central Public Sector undertaking.

Kindly note the following information as per the Table below:

Date of Submission of Bid	24th October 2018 upto 3:30 P.M.
Date of opening of Bid	24th October 2018 upto 4:30 P.M.
Tender Paper Cost (Non-refundable) & Earnest Money Deposit	To be paid by demand draft in favour of "IIT Kharagpur" on any nationalized Bank of India payable at Kharagpur Branch in two separate envelopes. Earnest Money will be converted to Security Deposit of successful tenderer.
The submission of bid must have a forwarding application along with self attested all relevant documents as required.	

The scope of work under the Tender shall include supply of Plant and Machinery, Erection of Equipment, Testing and Commissioning, supply of working Drawing, Elimination of teething problems and handing over the plant.

The Tenderers are requested to inspect the sites and satisfy themselves about the working conditions and site requirements before submitting the Tender.

(S. Ghosh)
Sr. Executive Engineer (Electrical)

Copy to :

- 1) Prof. in-Charge (Electrical Works)
- 2) Prof. in -Charge (IIC) :- with a request for publication of tender notice
In Institute Web site
- 3) Registrar, I.I.T Kharagpur.
- 4) Chief Engineer
- 5) Superintending Engineer (Elect.)
- 6) Superintending 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.

Signature of Contractor

Tender Document

For

Name of the Work: Electrical Renovation Work in Institute Main Building, different Departments/Centres/Schools etc. under Institute Academic area at IIT Kharagpur.

1. The site for the work is available/or the site for the work shall be made available in the parts as specified below.
2. The time allowed for carrying out the work will be 60 days from the day after the date of written orders to commence the work.
3. The contractor should quote the figures as well as in words the rate and amount tendered by them. The amount for each item should be worked out and the requisite totals given.
4. When a contractor signs a tender in an Indian Language the total amount tendered should also be written in the same language.
5. Earnest Money, amounting to **Rs. 3,430/-** (Rupees Three Thousand Four Hundred and Thirty only) in Demand Draft in favour of " IIT Kharagpur" on SBI, Kharagpur must accompany each tender and each tender is to be in a sealed cover superscribed with , **"Electrical Renovation Work in Institute Main Building, different Departments/Centres/Schools etc. under Institute Academic area at IIT Kharagpur"**.
6. Earnest Money of the successful bidder is to be converted into security deposit, further sum amounting 10% or as applicable will be deducted from your running bill(s)/final bill.
7. The acceptance of a tender, will rest with the authority who does not bind himself to accept the lowest tender, and reserves to himself the authority to reject any or all the tenders received without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.
8. Canvassing in connections with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
9. All rates shall be quoted on the proper form of the tender alone.
10. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated to the Engineer-in-Charge.
11. Special care should be taken to write the rates in figures as well as in words, and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word "Rs." should be written before the figure of rupees and words "P" after the decimal figures, "e.g., Rs.2.15P" and in case of words "Rupees" should precede and the word "Paise" should be written at the end. Unless the rate is in whole rupees and followed by the words "only" it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the work "only" should be written closely following the amount and it should not be written in the next line.
12. The Institute does not bind himself to accept the lowest or any tender and reserve to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

13. GST, labour cess insurance or any other tax on materials, machinery and T&P, labour or any other item/service in respect of this contract shall be payable by the contractor and Institute will not entertain any claim whatsoever in respect of the same.
14. The contractor shall not be permitted to tender for works in the Institute in which his near relative is posted as Divisional Accountant or as an Officer in any capacity between the grades of Superintending Engineer and Engineer (Both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Officer in the Institute. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Institute.
15. The contractor shall give a list of Institute employees related to him.
16. No Engineer or Officer rank or other employees employed in Engineering or Administrative duties in an Engineering Department of the Govt. of India Institute is allowed to work as a contractor for a period of two years of the retirement from Govt. service Institute, without the previous permission of the Govt. of India Institute. This contractor is liable to be cancelled if either the contractor or any of this employees is found at any time to be such a person who had not obtained the permission of the Govt. of India Institute as aforesaid before submission of the tender or engagement in the contractor' service.
17. The tender for the work shall remain open for acceptance for period of 120 days from the date of opening of the tender. If any tenderer withdraws his tender before the said period or makes any modifications in terms & conditions which are not acceptable to the Engineer-in-charge then Institute shall without prejudice to day other right or remedy be a liberty to forfeit the said earnest money.
18. The contractors exempted from payment of earnest money/security deposit in individual cases should attach with the tender an attested copy of the Institute's letter exempting them from the payment of earnest money and security deposit and should produce the original whenever called upon to do so.
19. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render tenders of the contractors tendering as well as witnessing the tender liable to summery rejection.
20. The Contractor shall submit list of works which are in hand (Progress) in the following form :

Name of Work	Name and particulars of Division where work is being executed.	Amount of work	Position of works in progress	Remarks
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21. Rates quoted by the contractors in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures, and in word. However, if a discrepancy is found the rates which correspond with the amount worked out by the contractor shall be taken as correct.
22. If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words that the rate quote by the contractor in words should be taken as correct.
23. Where the rate quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the rate quoted by the contractor will be taken as correct, not the amount.

Name of work: **Electrical Renovation Work in Institute Main Building, different Departments/Centres/Schools etc. under Institute Academic area at IIT Kharagpur.**

Sl. No.	Description	Unit	Qty.	Rate (₹)	Amount (₹)
1	Wiring for light point / fan point / call bell point / exhaust fan point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable size GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc as required . Make (Wire):- Finolex/RR Kabel/Polycab/ Havells. Make (Pipe):- Prestoplast/Precision				
a)	Upto 6 metres.	Point	28		
b)	Above 6 metres .	Point	5		
2	Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required . Make (Wire):- Finolex/Havells/RR Kabel/Polycab. Make (Pipe):- Presto plast/Precision				
a)	2 X 2.5 sq mm + 1 X 2.5 sq mm for E.C.C	Mtr.	77		
b)	2 X 4 sq mm + 1 X 4 sq mm for E.C.C	Mtr.	80		
c)	2 X 6 sq mm + 1 X 6 sq mm for E.C.C	Mtr.	5		
d)	2 X 10 sq mm + 1 X 6 sq mm for E.C.C	Mtr.	5		
e)	4 X 4 sq mm + 2 X 4 sq mm for E.C.C	Mtr.	40		
f)	4 X 16 sq mm + 2 X 6 sq mm for E.C.C	Mtr.	40		
3	Supplying and fixing following sizes / modules ,GI box along with modular base & cover plate for modular switches in recess etc as required . Make:- Crabtree Verona/Wipro Nova/Legrand Myrius range//MK (Wraparound Plus)				
a)	1 or 2 Module	Each	18		
b)	6 Module	Each	17		
4	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc as required . Make:- Crabtree Verona/Wipro Nova/Legrand Myrius range/MK (Wraparound Plus)				
a)	5 /6 amps switch	Each	27		
b)	15 /16 amps switch	Each	21		
c)	3 pin 5 /6 amps socket outlet	Each	21		
d)	6 pin 15 / 16 amps socket outlet	Each	21		

5	Supplying & Fixing suitable size GI box with modular plate and cover in front on surface or in recess,including providing and fixing 25 Amps modular socket outlet and 25 Amps modular SP MCB, "C" curve including connections,painting etc.as required. Make:- Crabtree/wipro/Legrand.	Each	4		
6	Installation , testing and commissioning of pre- wired, florescent fitting /compact florescent fitting/LED fittings of all types complete with all accessories and tube etc. directly on false ceiling / wall including connection with 3 X1.5 sq mm FRLS PVC insulated copper conductor single core cable and earthing etc as required.	Each	3		
7	Supplying & fixing of 36 to 42 Watt LED fittings 2 ft X 2 ft 6000 K Cat No LHEWDRP7PK1W042 of Havells Make:- Havells/Philips/Bajaj.All the luminaires should be warranted for 5 years at site with free of cost.Permanent numbering of LED luminaires are mandatory during installation at site.	Each	3		
8	Supply of 16 inches (400 mm) Sweep Wall Mounted Fan,(of Orient) Model :Wall-41 of Orient make/ 5 star Make: Orient/Crompton Greaves/Usha/Havells	Nos.	3		
9	Installation , testing and commissioning of wall fan/ ceiling fan including wiring the down rods of standard length (upto 30 cm) with 3 X1.5 sq mm FRLS PVC insulated copper conductor single core cable etc as required.	Each	3		
10	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 incl. S+F of 1 X 10 SWG GI wire for E.C.C making holes and manding good the damages to original finish incl painting.(Cable Dept supply)				
a)	Upto 35 sq mm (clamped with 1 mm thick saddle)	Mtr.	15		
b)	Above 35 sq mm and upto 95 sq mm (clamped with 25 X 3 mm MS flat clamp)	Mtr.	10		
11	Supplying and making end termination with brass compression gland and lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 kV grade as required. Make:- ARUN/Dowells				
a)	2 X 16 sq mm	Each	2		
b)	4 X 10 sq mm	Each	2		
c)	4 X 16 sq mm	Each	2		
d)	3.5 X 25 sq mm	Each	2		
e)	3.5 X 35 sq mm	Each	2		
f)	3.5 X 50 sq mm	Each	2		
g)	3.5 X 70sq mm	Each	2		

h)	3.5 X 95 sq mm	Each	2		
12	Supplying and fixing TPN sheet steel Enclosure on surface/recess along with 16/25/32 Amps ,415 V "C" curve TPN MCB complete with connection, testing and commissioning etc.as required. Make:- Legrand/Hager/L&T	Each	4		
13	Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provisionfor earthing attachment Up to 160A				
a)	8 Way Double door (Enclosure - 607914) of M/s. Legrand make Make:- Legrand/Hager/L&T	Each	1		
14	Supplying and fixing 5 Amps to 32 Amps rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- Legrand/Hager/L&T				
a)	Single Pole	Each	8		
b)	Triple Pole	Each	2		
15	Supplying and fixing 40 Amps to 63 Amps rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:- Legrand/Hager/L&T				
a)	Single Pole	Each	4		
b)	Triple Pole	Each	6		
c)	Four Pole	Each	2		
16	Supply and fixing 160 Amps, 4 Pole, 25 kA MCCB with Icu = Ics (for 1 sec.) adjustable Overload setting (Thermal magnetic release MCCB) with 2 sets of Copper spreader terminals. Make: Legrand/Hager/L&T	Each	1		
17	Supplying & Fixing of 18 to 20 Watt LED Tube with batten, 6000K,100 Lumen/Watt with Two years replacement warrent. Cat 6000k/80/2000 Eveready/Havells/Philips.	Each	10		
18	Supply & Installation of exhaust fan PVC Body,240 mm Sweep Noise Less Model Crips Air in the existing opening including of all hardwares & making good the damage connection, testing, commissioning etc. complete as required. Make: Usha/CGL/Havells/Orient	Each	2		

19	Dismantling of Light Fitting / Fans / SPN DB/ TPN DB/Main Switch /Main Supply Panel /existing old wiring,cable etc and shifting to site store including mending good damages to original finish.				
a)	Light Fitting/Celling Fan/Wall Fan/Exhaust Fan/Industrial plug & socket DB/Metal Enclosure etc.	Each	4		
b)	TPN DB/SPN DB/Main Switch etc.including accessories & old cable/Wiring	Each	4		
c)	Medium Size main supply Panel etc. including accessories & old cable/Wiring	Each	1		
		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

2) All electrical work includes dismantling of old items in respective area and depositing them to the store with proper documentation.

3) Copper Socketing above 4 sq.mm size are required for all end terminations with copper wire. These are to be strictly followed.

4) No twisting joints are allowed in any cases. Suitable Connectors/Ceiling roses are to be used in switch/ Power Boards and ceiling rose

5) Laying of conduits on false ceiling are not allowed, the conduits are to be laid on wall/ceiling for connection to the points on false ceiling

GENERAL SPECIFICATION AND CONDITIONS

1. The work shall be carried out as per National Code or P.W.D. specifications for works at West Bengal or other wise as specified in the Schedule of Quantities for the works.
2. The rates on percentage quoted by the contractors shall be for all leads, lifts, depth etc. unless otherwise specified in the schedule of quantities attached to agreement.
3. The work will be carried out as per instructions given by the Engineer-in-Charge and as per layout plan and the contractor shall be bound to carry out the work in accordance with the revised instruction and /OR modified drawing.
4. The brick shall be second class and / or first class bricks or a specified in the schedule of quantities and shall be of local best available size. To use first class brick only for construction of feeder pillar foundation.
5. All the materials such as stone chips. Sand pipes and other materials to be used in the work shall have to be approved by the Engineer-in-Charge not below the rank of Assistant Engineer.
6. No pipe line shall be covered until the same has been approved by the Engineer-in-Charge.
7. All charges for the Municipal fees and other taxes that may be payable as per local Municipal rules be paid by the contractors and his rates for such items shall be inclusive of all such charges. Nothing extra will be paid on this account by the department.
8. The contractor shall construct suitable go-down at the site of work for storing the materials safe against damage by Sun, Rain, dampness, fire, theft, etc. at his own cost. He shall also employ necessary watch and ward establishment for tools and plant and other materials issued to him at his own cost. No extra payment shall be made on this account.
9. After laying of cable in underground the trench must be strictly mended and duly rammed with a rammer or rolled with a roller.
10. The fences damaged while digging the trench in individual quarters must be mended using barbed wire and bamboo or concrete pillars.
11. All G.I. items mentioned in the entire tender should be or hot dipped galvanization.
12. All light brackets are to be made first as specified in the tender and then hot dipped galvanizations are to perform. No cracks are acceptable on brackets.
13. Empty cable drums are to be deposited to the Section or Store as desired by Site-in-Charge.
14. Any item used while execution of the work, should be duly approved by the department.
15. Prior to commencement of the work Registration from labour enforcement office has to be taken. Also it may be noted that minimum wages as per minimum wages Act must be paid to the contract labours. Currently the minimum wage as per G.O.I norms is Rs.283/- which must be followed.
16. The Site Supervisors should possess supervisory competency certificate and the Electricians should have proper work permits.
17. Safety of materials issued by the Department to the Contractor is the contractors' responsibility.
18. Safety of engaged manpower of Contractor is the Contractor's responsibility. The successful tenderer shall at all times indemnify the Institute, consequent on this work contract. The successful Tenderer shall be liable, in accordance with Indian law & Regulations for any accident occurring due to any cause and the Institute shall not be responsible for any accident and damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment under the supervision of the successful bidder in so far as the latter is responsible. The successful Tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful Tenderer due to above.

Make list format

Name of the Work: **Electrical Renovation Work in Institute Main Building, different Departments/Centres/Schools etc. under Institute Academic area at IIT Kharagpur.**

Sl. No.	Description of items	Approved makes proposed by the contractor	Makes approved by the Department
1.			
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16.			

Signature of E (EW)

Signature of Sr.E.E.(EW)

Signature of S.E (E&M)

Signature of Contractor