

**ESTATE ELECTRICAL & MECHANICAL WORKS HEAD OFFICE
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR 721 302**

NOTICE INVITING TENDER

No. : IIT/E/E&M/T/48/2017-18

Dt. : 06.03.2018

1. Sealed tenders are invited on behalf of the Director, Indian Institute of Technology, Kharagpur from eligible electrical Contractors of CPWD/PWD/IIT/MES/Railways/PSUS/Central Govt. or State Govt. Departments for the following works :

Sl. No.	Name of Work	Estimated Amount (₹)	Earnest Money (₹)	Cost of Tender Document (₹)	Completion Time
1	Renovation of classroom no. 201 and 203 in the first floor of MME Department for Conversion into faculty office	1,75,893.00	3,518/-- (To be submitted in a separate envelope)	500.00 (non-refundable)	30 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. 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.

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

- i) GST
- ii) PAN
- iii) Work Completion Certificates justifying eligibility criteria
- iv) Updated Electrical Contractor License
- v) Updated Trade License

Eligibility criteria :

Contractors who fulfil 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	28 th March 2018 upto 3:30 P.M.
Date of opening of Bid	28 th March 2018 at 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)
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) Executive Engineer (Civil)
- 6) Dy. Registrar (F &A)
- 7) Dy. Registrar (S&P)
- 8) Notice Board, EPDS.
- 9) Notice Board, Estate (E &M) Head office, Old Building
- 10) Office file.

Tender Document

For

Name of the Work: **Renovation of classroom no. 201 and 203 in the first floor of MME Department for Conversion into faculty office .**

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 30 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. 3,518/-
(Rupees Three Thousand Five Hundred Eighteen 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 , **“Renovation of classroom no. 201 and 203 in the first floor of MME Department for Conversion into faculty office .”**.
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 of 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's service.
17. The tender for the work shall remain open for acceptance for period of 30 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 any other right or remedy be at 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 summary 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.

Electrical Renovation Work in Classroom Nos. - 201 & 203 of Metallurgical & Material Engg. Department, IIT Kharagpur.

Sl. No.	Description	Unit	Qty.		
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 PVCinsulated copper conductor single core cable etc as required .				
a	Upto 4 metres.	Each	4		
b	Above 4 metres .	Each	8		
c	Above 6 metres .	Each	4		
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 .				
a	2 X1.5 sq mm +1X1.5 sq mm for E.C.C	Meter	50		
b	2 X2.5 sq mm +1X2.5 sq mm for E.C.C	Meter	180		
c	2 X4 sq mm +1X4 sq mm for E.C.C	Meter	200		
3	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required.				
a	20 mm	Meter	50		
b	25 mm	Meter	50		
4	Supplying and fixing metal box of following sizes on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.				
a	75 mm X 75 mm X 60 mm deep	Each	8		
b	100 mm X 100 mm X 60 mm deep	Each	4		
c	150 mm X 150 mm X 60 mm deep	Each	1		
d	200 mm X 150 mm X 60 mm deep	Each	1		

5	Supplying and fixing following sizes / modules ,GI box along with modular base & cover plate for modular switches in recess etc as required .				
a	1 or 2 Module	Each	4		
b	6 Module	Each	24		
6	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc as required .				
a	5 /6 amps switch	Each	24		
b	15 /16 amps switch	Each	24		
c	3 pin 5 /6 amps socket outlet	Each	28		
d	6 pin 15 / 16 amps socket outlet	Each	24		
7	Supplying and fixing stepped type 2 Module electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	4		
8	Supplying and fixing of modular plate type 11-18 A motor starter unit complete with 25 A DP MCB and 20 A plug & socket flushed in wall with earthing attachment for Split / Window Airconditioner equiv. to Northwest (Complete unit).	Each	4		
9	Supply of 38 - 45 Watt, 5700K - 6000K, 100 lumen/watt (approx) luminous efficacy modular LED luminaire suitable for recess armstrong/ grid ceiling and POP mounting complete with electronic driver including connection with 1.5 sq mm FRLS PVC insulated copper conductor single core cable and earthing etc as required. Make - Havells , Equivalent to LHEWDRP7PK1W042 /Bajaj/Philips.	Each	12		
10	Supply and fixing of extra conduit down rod of 20 mm dia (heavy gauge), 2x10 cm length, wiring with 3X1.5 sq mm single core FRLS PVC cu cable including cutting ,threading and painting etc as required.(Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored.)	Each	10		

11	Erection of Wall bracket / Ceiling fittings of all sizes and shapes, complete with all accessories including connection etc. as required.	Each	12		
12	Supply & Fixing of 220-240 volt a.c.,50 HZ, single phase, 5 star rated Ceiling Fan complete with all accessories, White in colour, 52 Watt, 370 RPM, 220 CMM air delivery, 1200mm sweep and connection with 3X1.5 sq mm FRLS PVC insulated copper conductor single core cable and earthing etc as required, Equivalent to USHA make (Model-STRIKER PLUS) / Orient/ Polar.	Each	4		
13	Supply of one number Aluminium conductor PVC insulated and PVC sheathed / XLPE, Armoured Power Cable of 1.1 kV grade,, Confirming to IS: 1554/7098 (Part -1) 1988 with latest amendments.				
a	3.5X25 sq mm	Meter	80		
14	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 1X10 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)	Meter	20		
15	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray along with S+F of 10 SWG GI wire as earth wire as required.				
a	Upto 35 sq. mm (clamped with 1mm thick saddle @ 3 sets per metre.)	Meter	50		
16	Laying of cable as below after cutting floor/pavement/wall/ and making holes incl embedding the cable at an average depth as below and mending good the damages to original finish incl S+F of 1X10 SWG wire for ECC (Cable Dept Supply)				
a	From 2.5 sq mm to 35 sq mm at an average depth of 75 mm in floor/pavement/wall etc.	Meter	10		

17	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.				
a	3.5X25 sq mm (28 mm)	Each	4		
18	Dismantling of following items with good condition and shifting to site store etc. including mending good the damages to original finish.				
a	Light Fittings/Ceiling Fan/Wall Fan/Exhaust Fan/Industrial plug & socket DB/Metal Enclosure etc. including accessories & old wiring/cable.	Each	20		
19	Supply & Fixing of wall/recessed mounted type fornt operated, double door TPN 08 Way ETPN MCB DB (IP-43)with provision for FP MCB as incomer and SP MCB as outgoing till 63 amp, including supply & fixing of the following C-curve, 10 kA - 100 A FP MCB --1 No., 10 A SP MCB -- 08 Nos. , 25 A SP MCB -- 10 Nos., 32 A SP MCB -- 06 Nos.,	Each	1		
			Total =	Rs.	

Make :-

DB/ MCB/ MCCB/ Metal Enclosure :- L&T/ legrand/ Siemens.

FRLS Wire, 1.1 KV :- Finolex/Havells/Gloster/Rajnigandha/KEI.

PVC pipe (MMS) :- Precision .

Switch/Socket/Regulator/GI Box :- Crabtree Thames (Sapphire & Platinum range)/ Wipro(Nowa)/ legrand (Myrius range).

3 Pole Ceiling Rose/ Holder :- Anchor / SSK,

Power Cable :- Havells / Gloster / Finolex / Polycab.

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

2) All eletrical work includes dismantling of old items in respective area and depositing them to the store as per rules.

3) For LED fittings(including driver and luminains). - Minimum 05 years warranty at Kharagpur site must be given from the date of installation at free of cost. Also LM 79 & LM 80 Certification by any National or International accredited Laboratory is mandatory.

4) Numbering of each LED fittings with permanent marker for identification of the supplier along with supplier name & date.

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.

