

INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR 721 302
ESTATE (E&M) WORKS SECTION

TENDER NOTICE

No. : IIT/E/E&M/T/17/2018-19

Dt. : 02 .07..2018

The Executive Engineer (Electrical Works), IIT Kharagpur invites sealed item rate tenders in **Two Bid System containing Part-I (Technical Bid) & Part-II (Financial Bid)** from the registered and eligible 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 works associated with providing Electrical service connection through metering panel along with associated Electrical works for the proposed temporary shed for accommodating TIKKA area shops at new location.	2,51,470/-	5.029/- (To be submitted in a separate envelope)	1000/-	03 Month

TENDER DOCUMENTS can be downloaded from the Institute website www.iitkgp.ac.in and apply. 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.

- a) This tender is available at CPP Portal (<https://eprocure.gov.in/cpp/>)
- b) Amendments/Corrigendums will be published in website.
- c) Amendments/Corrigendums will also be published in CPP Portal for the first time.

TECHNICAL BID : Technical Bid must accompany the following documents with self attestation for Technical evaluation:

- A.
 - i) GST
 - ii) PAN
 - iii) Completion Certificates of works justifying eligibility criteria.
 - iv) Updated Contractor’s Electrical Licence

v) Updated Trade Licence

Kindly note the following information as per the Table below:

Date of Submission of Technical Bid, Price Bid	25 th July 2018 upto 3:30 P.M.
Date of opening of Technical Bid	25 th July 2018 at 4:30 P.M.
Date of opening of Price Bid	1 st August 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 bidders must submit the bid in 3 (Three) nos. separate envelopes each containing a) Technical Bid, b) Price Bid & c) Earnest Money Deposit & Tender Paper cost. The Technical bid must have a forwarding application along with all relevant documents as required in the Technical Bid.	

B. 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 /State Government/Central Autonomous Body/PSUs.

C. Make list of the major items /equipment submitted for verification and getting approval by the Institute.

FINANCIAL BID : Financial Bid must accompany the Price bid duly filled.

(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) 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 Document

For

Name of the Work : Electrical works associated with providing Electrical service connection through metering panel along with associated Electrical works for the proposed temporary shed for accommodating TIKKA area shops at new location.

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 03(Three) Month 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. 5,029 00(Rupees Five Thousand Twenty Nine 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 works associated with providing Electrical service connection through metering panel along with associated Electrical works for the proposed temporary shed for accommodating TIKKA area shops at new location**”.
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 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 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.

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
Office of the Sr.Executive Engineer (Electrical)

Name of work : Electrrical works associated with providing service connection through Metering Panel and associated Electrical works for the proposed temporary shed for Tikka shops at new location.

Sl.no.	Description	Unit	Qty.	Unit Rate	Total
1	<p>Supply, installation,testing and commissioning of outdoor type dust and vermin proof Compartmentalised,cubical, modular type Feeder pillar cum metering panel made out of 10SWG CRCA sheet steel with conical top canopy as per ANX-1 attached herewith.The configuration of the PCC panel will be as under.</p> <p>Incoming switch:- 1) 125A,4P,16KA,MCCB-1no</p> <p>Outgoings:- a)63A,4P,10KA,MCB-1nos b)40A,2P,10KA,MCB-8nos c)Single Phase kWh meterof 5-30A-8nos d)3 Phase 4 wire kWh meterof 10-40A-1nos All the MCCB units should have: ON,OFF,TRIP indicationsshould have extended rotary handle and spreader links for terminations. All the MCB units should have "stud type"connections for taking outgoing supply at cable alley location. TPN Aluminium Bus Bar: The TPN AL Busbar capacity should be 200 amps with coloured insulated &sleeved. Approx Dimension: 1800mmx1400mmx350mm.</p>	no	1		
2	<p>Supplying and fixing of 125A,4P,16kA,MCCB on the existing Panel.</p> <p>Make:- Legrand/Siemens/L&T/Hager./substantially equivalent</p>	no	1		
3	<p>Supply of 1.1kv grade, 50 sq.mm, 3.5 core, XLPE insulated A2XFY overall sheathed stranded aluminium conductor flat steel strip armoured cable. Conforming to IS:7098 part-I with latest amendments.</p> <p>Make:- Havells/Finolex/RRKabel./Polycab/substantially equivalent</p>	mtr	170		

4	Supply of 1.1kv grade, 10 sq.mm, 4.0 core, XLPE insulated overall sheathed stranded aluminium conductor flat steel strip armoured cable. Conforming to IS:7098 part-I with latest amendments. Make:- Havells/Finolex/RRKable./Polycab/substantially equivalent	mtr	15		
5	Supply of 1.1kv grade, 10 sq.mm, 2.0 core, XLPE insulated overall sheathed stranded aluminium conductor flat steel strip armoured cable. Conforming to IS:7098 part-I with latest amendments. Make:- Havells/Finolex/RRKable./Polycab/substantially equivalent	mtr	80		
6	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.				
a)	Upto 35sq.mm.	mtr	95		
b)	Above 35sq.mm. And Upto 95 sq. mm.	mtr	170		
7	Supply &making indoor end termination with brass compression gland and AL/Cu lugs(Dowells make) of following size of PVC insulated and PVC sheathed/XLPE AL. conductor cable of gr.1.1kv as required.				
a)	Upto 2.0 core x10 sq.mm.	no	32		
a)	Upto 4.0 core x10 sq.mm.	no	2		
b)	Upto 3.5 core x50 sq.mm.	no	2		
8	Supplying and fixing DP enclosure on wall with angle iron frame to be mounted on surface with following combination for all accessories as may be required. A)40A,2P,415V,MCB-01no. Make:- Legrand/Siemens/L&T/Hager/substantially equivalent	no	8		
9	Supplying and fixing 4P enclosure on wall with angle iron frame to be mounted on surface with following combination for all accessories as may be required. A)63A,4P,415V,MCB-01no. Make:- Legrand/Siemens/L&T/Hager/substantially equivalent	no	1		

10	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(300mmx300mm) having locking arrangment and watering pipe etc.For any type of soil morrum/hard Pipe:-TATA/Bansal medium gauge pipe/substantially equivalent	no	2		
11	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.	mtr	3		
12	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	60		
13	Dismantling of old panel and wiring as required and deposit the dismantled material to the identified store in the institute.	no	1		

Please quote including GST

Total=

Note:

- 1) All the wiring i.e. Distribution Boards should be mounted on the iron frame of the temporary shed.The PVC pipes should be tied up rigidly against iron frame by metallic saddles only @3nos/mtrs.
- 2)No twisted joints are allowed in any board/DBs. Contractor should use suitable connectors during this joints(Like neutral joints, earthing wire joints etc.)

Annexure – I
Feeder Pillar cum Metering panel
Description

Supply, erection, testing and commissioning of Feeder Pillar cum metering panel made out of 10SWG CRCA sheet steel material with conicle top canopy. This should be modular type compartmentalised, dust and vermin proof, mounted on angle iron frame at a height 2.5foot from ground level on masonry structure of suitable size of the following types:-

Incoming switch:-

1) 125A,4P,16KA,MCCB-1no

Outgoings:-

a)63A,4P,10KA,MCB-1nos

b)40A,2P,10KA,MCB-8nos

c)Single Phase kWh meterof 5-30A-8nos

d)3 Phase 4 wire kWh meterof 10-60A-1nos

All the MCCB units should have: ON,OFF,TRIP indications should have extended rotary handle and spreader links for terminations.

All the MCB units should have "stud type" connections for taking outgoing supply at cable alley location.

TPN Aluminium Bus Bar: The TPN AL Busbar capacity should be 200 amps with coloured insulated & sleeved. (Aluminium bars: 20mmx10mm,1no for phase and neutral)

Approx Dimension: 1800mmx1400mmx350mm.

Earth Bar: Should be with 50mmx6mm GI flat covering the entire length of the panel.

Colour: Should be power coated with 'OPALING GREEN'

Make: L&T, Legrand(MCCB,MCB),L&T

(Ammeter,voltmeter)/substantailly equivalent

Note:

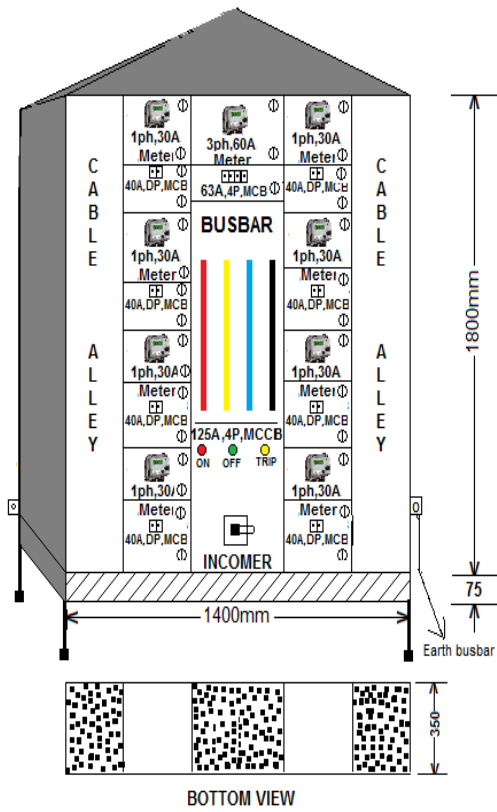
1) The contractor should submit the GA and electrical layout diagram mentioning the make of each item for getting the approval from the INSTITUTE before placing order for fabrication.

2) The panel should be guranted for one year after successfull commissioning at site.

3) The contractor is liable to arrange testing of the Feeder Pillar cum metering panel at the factory for the Institute representative before despatch at site.

4) Please note that all the modular panel should have provision with front side glass, to record the meter reading from outside without opening the modular boxes. 5) Each modular cubical for meters should have sealing arrangement with the door .

Outdoor Panel Layout diagram



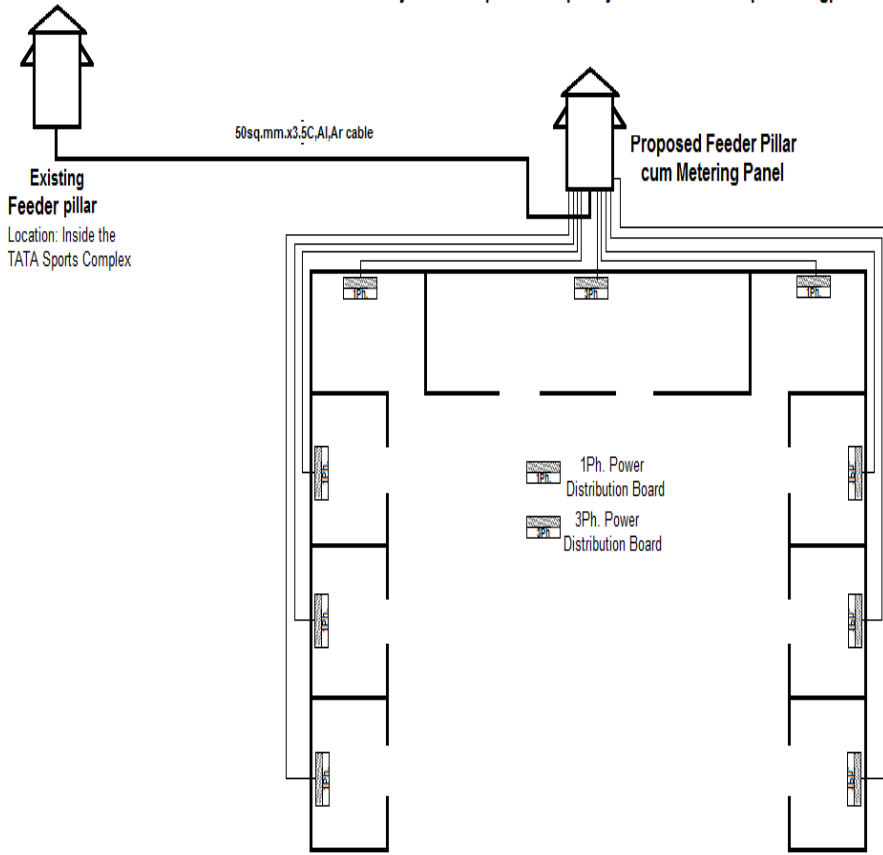
Prepared by

Checked by

PANU DAS
Jr. Engineer
Estate (E&M)

P PAL
Engineer
Estate (E&M)

Electrical Layout for Proposed Temporary Shed of Tikka Shops at IIT kgp.



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 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 :

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

Signature of E (EW)

Signature of Sr.E.E.(EW)

Signature of S.E (E&M)