

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

TENDER NOTICE

No. : IIT/E/E&M/T/21/2018-19
Dt. : 10.07.2018

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	Supply, Installation, testing and commissioning of DG Power distribution panel at Nalanda classroom complex to facilitate essential lighting and lift loads during outage of main power supply	4,12,770/-	8,255/- (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/cppp/>)
- 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	1 st August 2018 upto 3:30 P.M.
Date of opening of Technical Bid	1 st August 2018 at 4:30 P.M.
Date of opening of Price Bid	8 th 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.
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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 to be mentioned as per given format for getting approval from 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: Supply, Installation, testing and commissioning of DG Power distribution panel at Nalanda classroom complex to facilitate essential lighting and lift loads during outage of main power supply.

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. 8,255 00(Rupees Eight Thousand Two Hundred Fifty Five 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 , “:Supply, Installation, testing and commissioning of DG Power distribution panel at Nalanda classroomcomplex to facilitate essential lighting and lift loads during outage of main power supply”.
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

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 the work : Supply, installation, testing, commissioning of DG power distribution panel through AMF to facilitate the emergency power supply to NCRC essential lighting and Lift loads.

Sl.No	Description	Unit	Qty.	Rate	Amt.
1	<p>Supply, installation, testing and commissioning of 500 KVA DG power distribution panel. This should comprises of 9 panel, 500 KVA DG AMF power distribution panel, shall be fabricated out of 14 SWG sheet steel, totally enclosed, cubical, modular and compartmentalized damp, dust & vermin proof with IP 53 degree of protection, floor mounted & front operated, suitable for indoor installation with the following features:-</p> <p>Incoming switch:- 4 pole 800 amps MCCB, with microprocessor based releases O/L,S/C,& E/F — 01 no.</p> <p>Outgoing of the DG power distribution panel:-</p> <ol style="list-style-type: none"> 1) 4 pole MCCB of 400 amps capacity with microprocessor based releases O/L,S/C,& E/F – 02 No 2) 4 pole MCCB of 250 amps capacity with microprocessor based releases O/L,S/C,& E/F – 04No 3) TPN copper (Electrolytic grade copper of 99.99% purity) Bus-Bar: 1200 amps capacity with copper current density 1.25 amps/sq mm. and short circuit breaking capacity 50 KA / 1sec <p>Make of the component: Siemens/L &T / Legrand / Schneider /ABB</p> <p>CPRI Approved Panel builders :ROYCO, EAP (Electro Allied Product),Dynamic control, Kolkata, TTS systematics/Approved equivalent</p> <p>The contractor should fabricate the panel from the CPRI approved panel builders only</p>	Set	01		

	Approx. Panel dimension: H-1850 mm, B-1750 mm, D-600 mm Strictly followed as per ANX- 1 attached herewith.				
2.	Retrieving & re-laying of one no LT cable in U/G trench at 760mm deep and 460mm wide for 1.1 KV grade 3.5 core 300/400 sqmm, XLPE insulated, armoured cable with protection @8 bricks/mt on each cable including filling the space and trench with shifted soil, levelling, mending good the damages to original finish.	Mts	30		
3.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct/cable tray as required. (a) 185 sq mm & upto 400 sq mm 3.5 core,1.1 kV	Mts	100		
4.	Supplying and making end termination with brass compression gland (Arun make) and aluminium lugs (Dowell's) for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1KV grade as required. (a) 3.5 core 400 sq mm	Each	08		
5	Supplying and making end termination with brass compression gland (Arun make) and aluminium lugs (Dowell's) for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1KV grade as required. (a) 3.5 core 300 sq mm	Each	05		
6	Supplying and laying 25 mm X 5 mm hot dipped G.I strip at 0.50 meter below ground/partly laid in cable trench/saddling on wall as the case may be as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by 4/6 inch overlapping and welded joints)	Mts	10		
7	Disconnect & dismantling of 05 no, 1.1 KV grade, 300 sq mm, 3.5 cores, Al. armoured cable from existing LT PCC panel for re-connection with DG distribution panel. The job involves disconnection of respective cables from the PCC panel after taking shut down and maintaining proper precaution and protection during execution of work.	Job	01		

ANX-1

500 KVA DG POWER DISTRIBUTION PANEL

Supply, installation, testing and commissioning of **500 KVA DG power distribution panel**.

This should comprise of **9 panel**, 500 KVA DG AMF power distribution unit, shall be fabricated out of 14 SWG sheet steel, totally enclosed, cubical, modular and compartmentalized damp, dust & vermin proof with IP 53 degree of protection, floor mounted & front operated, suitable for indoor installation with the following features:-

Incoming switch:-

1. 4 pole MCCB of 800 amps with microprocessor based Over current and short circuit and **earth fault releases— 01 no.**

Outgoing of the DG power distribution panel:-

1. 4 pole MCCB of 400 amps capacity with microprocessor based Over current and short circuit and **earth fault releases – 02 No**
2. 4 pole MCCB of 250 amps capacity with microprocessor based Over current and short circuit and **earth fault releases – 04No**

TPN (copper should be with Electrolytic grade 99.99% purity) copper Bus-Bar: Bus Bar should be made of **copper** having **1200 amps** capacity having current density 1.25 amp/sq mm. and **50 KA** short circuit withstanding capacity for 1 sec., with coloured insulated and sleeved.

Approx. dimension: 1850 mm x 1750mm x 600mm

Note: a) All the MCCBs should have ON, OFF, TRIP indications, rotary handles and spreader links for all terminations.

b) The I/C unit should be with Multifunctional meter with RS 485 communication port.

c) There should be provision for erecting the panel on cable trenches also on suitable angle iron frame arranged by the contractor.

d) The contractor should provide one year comprehensive maintenance warranty after successful commissioning at site.

Make: Siemens/L &T / Legrand / Schneider

CPRI Approved Panel builders: ROYCO, EAP (Electro Allied Product), Dynamic control, Kolkata, TTS systematics or approved equivalent.

The contractor should fabricate the panel from the **CPRI** approved panel builders only.

Inspection: The contractor should arrange testing and inspection of the panel at workshop for the Institute engineers for getting clearance before despatch at site.

NOTE : The bidder should provide the schematic, GA diagram of the panels along with make list for getting approval by the Institute.

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 :

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)

