

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

TENDER NOTICE

No. : IIT/E/E&M/T/47/2016-17
Dt. : 28.03.2017

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 newly converted workshop into new “ Bio-electronics Innovation laboratory” in E & ECE Department, IIT Kharagpur.	2,20,780.00	4,416 (To be submitted in a separate envelope)	1,000.00 (non-refundable)	2 Months

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.

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

- A.
- i) VAT
 - ii) PAN
 - iii) Completion Certificates of works justifying eligibility criteria.
 - iv) Updated Contractor’s Electrical Licence
 - v) Updated Trade Licence valid upto 31.03.2017.

Kindly note the following information as per the Table below:

Date of Submission of Technical Bid, Price Bid	19 th April 2017 upto 3:30 P.M.
Date of opening of Technical Bid	19 th April 2017 at 4:30 P.M.
Date of opening of Price Bid	26 th April 2017 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 to be supplied.

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

(S. Ghosh)
Executive Engineer (Electrical)

Copy to :

1. Registrar, IIT Kharagpur
2. Prof.-In-Charge (Electrical Works)
3. Prof.-In-Charge, IIC--- with a request to upload the tender notice in the Institute Website
4. Superintending Engineer (Civil)
5. Dy. Registrar (F&A)
6. Notice Board, EPDS
7. Notice Board, Estate (E&M) Head Office

Tender Document

For

Name of the Work : **Electrical Works associated with newly converted workshop into new “ Bio-electronics Innovation laboratory” in E & ECE Department, 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 2 (Two) Months 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.4,416.00(Rupees Four thousand four hundred sixteen 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 newly converted workshop into new “ Bio-electronics Innovation laboratory” in E & ECE Department, 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 word “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. Sales-tax, purchase tax, turnover tax, service tax, VAT, Octroi, 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 these 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 a 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 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 Works associated with newly converted workshop into new “ Bio-electronics Innovation laboratory” in E & ECE Department, IIT Kharagpur.

Sl.no.	Description	Unit	Qty.	Unit Rate	Total
1	Wiring for light point/fan point/exhaust fan point/ call bell 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 G.I box & 3pin ceiling rose and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc as required. Wire (1.1kv gr.):- Finolex/Havells/KEI/Polycab/Glostar make. Pipe :- Presto Plast/Precesion make.(MMS)				
a)	Upto 6 mtrs.	no	22		
2	Wiring for circuit/ submain along with earth wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. Wire (1.1kv gr.):- Finolex/Havells/KEI/Polycab/Glostar make. Pipe :- Presto Plast/Precesion make.(MMS)				
a)	2X2.5 sq.mm+1x 2.5 sq.mm earth wire	mtr	75		
b)	2X4.0 sq.mm+1x 4.0 sq.mm earth wire	mtr	180		
c)	2X6.0 sq.mm+1x 6.0 sq.mm earth wire	mtr	140		

3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. Make:- Equivalent to Crabtree Thames Platinum range/Legrand(Myrius)/WIPRO(NOWA)				
a)	5/6 amps switch	no	57		
b)	15/16 amps switch with indecator	no	19		
c)	3pin 5/6 amps socket	no	57		
d)	6pin 15/16 amps socket	no	19		
4	Supplying and fixing following modular, GI box along with modular base & cover plate for modular switches in recess etc as required. Make:- Equivalent to Crabtree Thames Platinum range/Legrand(Myrius)/WIPRO(NOWA)				
a)	12M	no	19		
5	Supplying and fixing of modular plate type 11-18A motor starter unit complete with 25A DP MCB and 20A plug socket flushed in wall with earthing attachment for Split/Window Air conditioner. Make:- North West	no	4		

6	<p>Supplying of LED Fitting with 2x18W LED tube ,1800 Lumens,6500K(surface cum recess mounting decorative slim mirror optic fitting.) with all hardware and connection complete with 3x1.5 sq.mm. copper wire.Each tube should be >100 lum./Watt.They should give 5yrs.warranty and LM79/80 certification.</p> <p>Make:-Havells /Syska /Bajaj/Philips HPL/C&S</p> <p>Model:-Equiv. to SSK-TL-18W AL(Syska)(Lamp)</p> <p>Equiv. to Havells cat.no.- LHCF71236827(Fitting)</p>	no	10		
7	<p>Installation, testing and commissioning of pre-wired,LED fitting of all types, with all accessories and including supplying and fixing ball and socket arrangement,2no.down rods of 20mm diax1.6mm thick steel conduit upto 30cm length, painting and wiring the down rods and connection with 1.5sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing as required.</p>	no	10		
8	<p>Supplying & fixing 400mm,wall fan with all accessories & wiring complete with 3x1.5sq.mm. Copper wire.</p> <p>Make:-Orient(Wall 49)/USHA(MIST AIR DUOS)</p>	no	6		
9	<p>Supplying and fixing of 32A,3-pin tempr plug and socket DB with 32A,DP,10KA,MCB-1no.</p> <p>Make:- Legrand/Schneider/Siemens/Hager</p>	no	12		

10	Supplying and fixing of 8-way ,ETPN,Double Door,MCB, DB(IP43) on wall with angle iron frame/recess with following combination. A)100A,4P,415V,Isolator-01no. B)10A-32A,SP,10KA,415V,MCB-24 nos. Make:- Legrand/Schneider/Siemens.	no	1		
11	Supplying and fixing of 4-way ,ETPN,Double Door,Isolator, DB(IP43) on wall with angle iron frame/recess with following combination. A)63A,4P,415V,16KA,MCB-01no. B)10A-32A,SP,10KA,415V,MCB-14 nos. Make:- Legrand/Schneider/Siemens.	no	1		
12	Supply of 1.1kv grade, 50 sq.mm, 3.5 core, XLPE insulated overall sheathed stranded aluminium conductor flat steel strip armoured cable. Confirming to IS:7098 part-I with latest amendments. Make:- Havells/Gloster/Nicco/KEI/Polycab	mtr	50		
13	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 along with 2no 8SWG GI wire as earth connection and with saddling @ 3nos/mtr.				
a)	Above 35 sq. mm.	mtr	50		

14	Supply & making indoor end termination with brass compression gland and AL/Cu lugs of following size of PVC insulated and PVC sheathed/XLPE AL. conductor cable of gr.1.1kv as required. Dowell's make.				
a)	Upto 3.5 core x25 sq.mm.	no	1		
b)	Upto 3.5 core x50 sq.mm.	no	2		
15	Earthing with 50mm dia GI pipe 3.64 mm thick x3.0Mtrs.long and 13mm dia x80mm 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 having locking arrangement and watering pipe etc. For any type of soil morrum/hard Pipe:-TATA/Bansal medium gauge pipe	no	1		
16	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. bolts, nuts, washers, spacing insulators etc as reqd.	No	1		

17	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	20		
18	Providing and fixing 25 mmx5 mm G.I strip in 40 mm dia G.I pipe from earth electrode including connection with G.I nut, bolt, spring, washer excavation and re-filling etc.as required. All joint of GI strip should be done by welding only after 4"over lapping of the strip with anti rust painting on the joint.	mtr	10		
19	Dismantling of old panel and wiring as required and deposit the dismantled material to site store as instructed	no	1		
Rupees in words					

Note:-1)All mcb should be with 'c' curve,10KA.The contractor has to maintain 5 yrs. maintenance warranty of the fittings and driver,lamps from the date of commissioning and should provide an undertaking in this regard during execution of work.
2) Each fitting should have identification no.before fixing as directed by site in charge.

Note:-All materials to be used before prior approval of Engineer -in -charge.

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.