

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

TENDER NOTICE

No. : IIT/E/E&M/T/13/2018-19  
Dt. : 04.07.2018

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 (₹)	Tender validity
1	Term contract for Electrical Maintenance work in Institute Main Building, different Departments /Centres/Schools, NCRC etc. under Institute Academic Area and "STEP" Gopali at IIT Kharagpur	48,98,451.00	10,000.00	500.00 (non-refundable)	12 Months

TENDER DOCUMENTS can be downloaded from the Institute website [www.iitkgp.ac.in](http://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.

**It may also be noted that Prebid discussion on the nature of work will be held on 16<sup>th</sup> July, 2018 at 4.00 PM in the office of the Sr. Executive Engineer (Electrical) at Old Buildig, IIT Kharagpur.**

- 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	25 <sup>th</sup> July 2018 upto 3:30 P.M.
Date of opening of Technical Bid	25 <sup>th</sup> July 2018 at 4:30 P.M.
Date of opening of Price Bid	1 <sup>st</sup> 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 :

The average annual turnover should be 40 lakhs or more in last 03 years. Audited balance sheet (P/L account statement should be submitted for last 03 years) must be submitted.

C. **Must have an existing working base at Kharagpur.**

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

( 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.

Indian Institute of Technology, Kharagpur  
Estate (E&M) Works Section

Tender Document

For

Name of the Work : **Term contract for Electrical Maintenance work in Institute Main Building, different Departments /Centres/Schools, NCRC etc. under Institute Academic Area and “STEP” Gopali 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 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.
3. When a contractor signs a tender in an Indian Language the total amount tendered should also be written in the same language.
4. Earnest Money, amounting to Rs. 10,000/- ( Rupees Ten Thousand 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 , “**Term contract for Electrical Maintenance work in Institute Main Building, different Departments /Centres/Schools, NCRC etc. under Institute Academic Area and “STEP” Gopali at IIT Kharagpur**”.
5. 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.
6. 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.
7. Canvassing in connections with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
8. All rates shall be quoted on the proper form of the tender alone.
9. 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.
10. The contractor whose tender is accepted will be required to furnish by way of security deposit for the due fulfillment of his contract. Security deposit shall be **10% (Ten percent)** of the amount of work order for **DLP (Defect Liability Period) of 12 months (Twelve months)** from the date of commissioning / handing over of the work , **No Bank guarantee is accepted for the works below Rs.5 lakhs.** For above 5 lakhs Bank Guarantee from a Nationalized Bank/ Scheduled bank towards security deposit for the guarantee period will be accepted with the final bill and not for running bill. The security deposit will be collected by deductions from the running account bills of the contractor at the rate mentioned above.

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, GST, 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 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 365 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. Compensation for Delay:

Time is the essence of the contract for works unless otherwise specified.. Time is the essence of the contract and shall be reckoned from 10<sup>th</sup> day after the date of which the order to commence the work is issued to the contractor. The work shall be proceeded throughout the stipulated period of contract with all the diligence and contractor shall pay amount equal to one fourth percent ( ¼%) of the value of the work order/final amount as compensation for delay attributable to the contractor for every week after the expiry of the said time subject to maximum 10% of the above value. It may be noted that compensation will not be levied to the contractor for the delay Not attributable to the contractor.

19. 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.

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

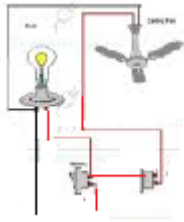
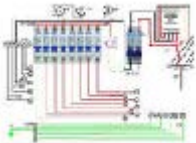
21. Rates quoted by the contractors in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures, and in word. However, if a discrepancy is found the rates which correspond with the amount worked out by the contractor shall be taken as correct.


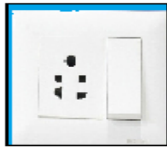
22. If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words that the rate quote by the contractor in words should be taken as correct.

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 : Electrical Maintenance Work in Institute Main Building, different Departments/Centres/Schools, NCRC etc. under Institute Academic area and “STEP” Gopali at IIT Kharagpur**




Sl. No		Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1		Wiring for light point / fan point /call bell point / exhaust fan point with 1.5 sq mm FRLS PVCinsulated 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 .Make - Wire:-Finolex/RR Kabel/Havells.Pipe:-Polycab/Prestoplast/Precision / Substantially equivalent				
a)		Upto 6 metres.	Point	200		
b)		Above 6 metres .	Point	100		
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 .Pipe:- Ploy cabPresto plast/Precision /Substantially equivalent.				
a)		2 X 1.5 sq mm +1 X 1.5 sq mm for E.C.C	Mtr.	1000		
b)		2 X 2.5 sq mm +1 X 2.5 sq mm for E.C.C	Mtr.	1000		
c)		2 X 4 sq mm +1 X 4 sq mm for E.C.C	Mtr.	2000		
d)		2 X 6 sq mm +1 X 6 sq mm for E.C.C	Mtr.	1000		
e)		2 X 10 sq mm +1 X 6 sq mm for E.C.C	Mtr.	500		
f)		2 X 16 sq mm +1 X 6 sq mm for E.C.C	Mtr.	500		
g)		4 X 4 sq mm +2 X 4 sq mm for E.C.C	Mtr.	500		
h)		4 X 6 sq mm +2 X 6 sq mm for E.C.C	Mtr.	100		
i)		4 X 10 sq mm +2 X 6 sq mm for E.C.C	Mtr.	100		
j)		4 X 16 sq mm +2 X 6 sq mm for E.C.C	Mtr.	50		



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. Make- Pipe-Presto plast/Precision substantially equivalent.				
a)		20 mm	Mtr.	250		
b)		25 mm	Mtr.	250		
c)		40 mm	Mtr.	250		
4		Supplying and drawing following sizes of FRLS PVC insulated 1.1 kv grade copper conductor, single core cable in the existing surface /recessed steel / PVC conduit as required. Make- Wire:- Finolex/Havells/RR Kabel/Substantially equivalent.				
a)		2 X 1.5 sq mm +1 X 1.5 sq mm for E.C.C	Mtr.	100		
b)		2 X 2.5 sq mm +1 X 2.5 sq mm for E.C.C	Mtr.	100		
c)		2 X 4 sq mm +1 X 4 sq mm for E.C.C	Mtr.	50		
d)		2 X 6 sq mm +1 X 6 sq mm for E.C.C	Mtr.	50		
5		Drawing only of following sizes FRLS PVC insulated copper conductor, single core cable in the existing surface /recessed steel / PVC conduit as required.				
a)		From 2 X 1.5 sq mm +1 X 1.5 sq mm for E.C.C to 2 X 10 sq mm +1 X 10 sq mm for E.C.C	Mtr.	50		
6		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. ISI Approved.				
a)		75 mm X 75 mm X 60 mm deep	Each	25		
b)		100 mm X 100 mm X 60 mm deep	Each	25		
c)		150 mm X 150 mm X 60 mm deep	Each	25		
d)		180 mm X 100 mm X 60 mm deep	Each	25		
e)		200 mm X 125 mm X 60 mm deep	Each	25		
7		Supplying and fixing following sizes / modules ,GI box along with modular base & cover plate for modular switches in recess etc as required .Make- Crabtree Thames platinum range/Wipro Nova/Legrand Myrius range/Mk-Blenze plus /Substantially equivalent.				
a)		1 or 2 Module	Each	250		
b)		3 Module	Each	800		
c)		6 Module	Each	500		








d)		12 Module	Each	100		
8		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 Thames platinum range/Wipro Nova/Legrand Myrius range/ Mk-Bleze/Substantially equivalent.				
a)		5 /6 amps switch	Each	1500		
b)		15 /16 amps switch	Each	1000		
c)		3 pin 5 /6 amps socket outlet	Each	1000		
d)		6 pin 15 / 16 amps socket outlet	Each	500		
e)		Bell push	Each	10		
9		Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.Make-Crabtree/Wipro/Mk/ Substantially equivalent.	Each	50		
10		Supplying and fixing call bell/ buzzer suitable for single phase,230 volts, complete as required.Make-Anchor/SSK/Substantially equivalent.	Each	25		
11		Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.Make-Anchor/SSK/Substantially equivalent	Each	25		
12		Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required Make- Crabtree/Wipro/Legrand/Mk//Substantially equivalent.	Each	50		
13		Supplying & Fixing suitable size GI box with modular plate and cover in front on surface or in recess,including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections,painting etc.as required.Make-Crabtree/wipro/Legrand./Substantially equivalent.	Each	50		




14		<p>Supplying &amp; Fixing of outdoor Luminaires LED type fittings 25 watt 5700 K cat no-LHETBXU7PA6S025(Havells)/Philips/Bajaj /Substantially equivalent Asymmetric suitable for pole dia 43 mm maximum including (ISI-Medium)1.50 mtr average length with nut ,bolt etc as required.With 5 years warrenty</p>	Each	25		
15		<p>Installation , testing and commissioning of pre- wired, fluorescent fitting /compact fluorescent 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.</p>	Each	200		
16		<p>Installation , testing -do- -do- including supplying and fixing ball and socket arrangement, 2 no down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length painting and wiring the down rods and connection -do-.</p>	Each	100		
17		<p>Fixing only outdoor / street light type fluorescent light fitting complete with all accessories to be fixed/projected from the wall of the building incl. making holes to building, S&amp;F 40 mm dia. GI pipe(ISI-Medium) 1.50 mts. average length, with GI socket at one end and thread at the other end &amp; suitable bend to house the fitting &amp; making necy. connections with S&amp;F necy. length of 3 X1.5 sq mm FRLS PVC insulated single core copper wire and making connections as required and mending good damages to wall &amp; painting.( Materials Department Supply)</p>	Each	10		
18		<p>Supplying &amp; fixing of 36 to 42 watt LED fittings 2 ft X 2 ft 6000 k Cat no-LHEWDRP7PK1W042 Make:- Havells/Philips/Wipro/Substantially equivalent.All the luminaires should be warranted for 5 years at site with free of cost.Permanent numbering of LED luminaires are mandatarly during installation at site.</p>	Each	50		
19		<p>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.</p>	Each	100		





20		Providing and fixing of extra conduit down rod of 20 mm dia (heavy gauge), 2 X 10 cm length, wiring with 3 X 1.5 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	50		
21		Extra for fixing the louvers / shutters complete with frame for a exhaust fan of all sizes.	Each	25		
22		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.	500		
b)		Above 35 sq mm and upto 95 sq mm (clamped with 25 X 3 mm MS flat clamp)	Mtr.	250		
23		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.)	Mtr.	500		
b)		Above 35 sq. mm and upto 95 sq. mm (clamped with 25 X 3mm MS flat clamp @ 3 sets per metre.)	Mtr.	250		
24		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 1 X 10 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.	Mtr.	500		
b)		Above 35 sq mm to 95 sq mm at an average depth of 100 mm in floor/ pavement/wall etc.	Mtr.	50		

25		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 @ 8 bricks per metre on each cable and refilling the trench etc. as required.				
a)		Upto 35 sq. mm	Mtr.	75		
b)		Above 35 sq. mm and upto 95 sq. mm	Mtr.	75		
26		Laying and fixing 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 incl mending good the damages to original finish. (Cable Dept Supply). This includes S+F 10 SWG GI earth wire for cables.				
a)		Upto 35 sq mm .	Mtr.	250		
b)		Above 35 sq. mm and upto 95 sq. mm	Mtr.	250		
27		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/ 3M/Substantially equivalent				
a)		2 X 6 sq mm	Each	20		
b)		2 X 10 sq mm	Each	20		
c)		2 X 16 sq mm	Each	20		
d)		4 X 10 sq mm	Each	20		
e)		4 X 16 sq mm	Each	20		
f)		3.5 X 25 sq mm	Each	20		
g)		3.5 X 35 sq mm	Each	10		
h)		3.5 X 50 sq mm	Each	10		
i)		3.5 X 70sq mm	Each	10		
j)		3.5 X 95 sq mm	Each	10		
28	Extra Attached Page	Earthing with GI earth pipe 4.5 mtr long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.Make- GI pipe-TATA(Medium)/Bansal(Medium)/Jindal(Medium)/Substantially equivalent.	Each	20		





29	Extra Attached	Page	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and 40 mm dia. GI (medium gauge) watering pipe of 2.7 metre long etc with charcoal / coke and salt as required. Make-Pipe:- TATA(Medium)/Bansal(Medium)/Jindal(Medium)/Substantially equivalent.	Each	15		
30			Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface on heavy duty insulator for connection etc. as required.	Mtr.	50		
31			Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required for GI pipe earthing & others.	Mtr.	500		
32			Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required for copper plate earthing.	Mtr.	50		
33			Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required. All Joints should be done by Brazing only after 4" overlapping the strips or as decided by the Engineer.	Mtr.	100		
34			Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required. All Joints should be done after 4" overlapping of the strips and by welding only.	Mtr.	100		
35			Supply and Fixing medium gauge Gi pipe (ISI-Medium) protection for cable entry including bending the pipe to the required shape complete as required with laying of wire/cable through pipe. Make-Medium size TATA/Bansal/Jindal./Substantially equivalent.				
a)			25 mm	Mtr.	50		
b)			40 mm	Mtr.	50		
36			Fixing of followings directly on surface / recessed / on flat iron legs on wall including necessary connection as required. ( DBs/ switch fuse unit : Department supply ).				
a)			SPN MCB DB (4 to 16 way)	Each	50		
b)			TPN MCB DB (4 to 12 way)	Each	50		

37		<p>Supplying and fixing TPN sheet steel Enclosure on surface/recess along with 32 Amp,415 V "C" curve TPN MCB complete with connection, testing and commissioning etc.as required.Make-Legrand/Hager/Siemens./Substantially equivalent.</p>	Each	50		
38		<p>Supplying and fixing DP sheet steel Enclosure on surface/recess along with 32 Amp,415 V "C" curve DP MCB complete with connection, testing and commissioning etc.as required. Make-Legrand/Hager/L&amp;T/Substantially equivalent.</p>	Each	50		
39		<p>Supplying and fixing 20 A,240 volt SPN Industrial type socket outlet,with 2 pole and earth,metal enclosed plug top alongwith 20 Amp,"C" curve, SP,MCB, in sheet steel enclosure,on surface or in recess with chained metal cover for the socket out let and complete with connections,testing and commissioning etc,as required.Make- Legrand/Hager/ Siemens /Substantially equivalent.</p>	Each	25		
40		<p>Supplying and fixing 20 A,415 volt TPN Industrial type socket outlet,with 4 pole and earth,metal enclosed plug top alongwith 20 Amp,"C" curve, TPN,MCB, in sheet steel enclosure,on surface or in recess with chained metal cover for the socket out let and complete with connections,testing and commissioning etc,as required.Make-Legrand/Hager/Siemens/Substantially equivalent.</p>	Each	25		
41		<p>Supplying and fixing 32 A,415 volt TPN Industrial type socket outlet,with 4 pole and earth,metal enclosed plug top alongwith 32 Amp,"C" curve, TPN,MCB, in sheet steel enclosure,on surface or in recess with chained metal cover for the socket out let and complete with connections,testing and commissioning etc,as required. Make-Legrand/Hager /Siemens /Substantially equivalent.</p>	Each	25		

42		Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) Make-Legrand/Hager/ Siemens /Substantially equivalent.				
a)		6 way , Double door		10		
b)		8 way , Double door		10		
c)		12 way Double door	Each	10		
43		Supplying and fixing of following ways surface/ recess mounting, horizontal type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. Make-Legrand/Hager/ Siemens /Substantially equivalent.				
a)		4 way (4 + 12), Double door	Each	20		
b)		8 way (4 + 24), Double door	Each	25		
c)		12 way (4 + 36), Double door	Each	25		
44		Supplying and fixing of following ways surface/ recess mounting, Vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) Make-Legrand/L&T/Hager/Substantially equivalent.				
a)		4 way (4 + 12), Double door		10		
b)		8 way (4 + 24), Double door		10		
c)		12 way (4 + 36), Double door	Each	10		

45		Supplying and fixing 5 A to 32 A 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 Siemens //Substantially equivalent.				
a)		Single pole	Each	100		
b)		Double Pole	Each	100		
c)		Triple pole	Each	100		
d)		Triple pole and neutral	Each	50		
46		Supplying and fixing 40 A to 63A 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/Siemens /Substantially equivalent.				
a)		Single pole	Each	50		
b)		Double Pole	Each	50		
c)		Triple pole	Each	50		
d)		Four pole	Each	50		
47		Supplying and fixing 80 A 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/Siemens /Substantially Equivalent.				
a)		Double Pole	Each	10		
b)		Triple Pole	Each	10		
c)		Four pole		10		
48		Supplying and fixing 100 A 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/Siemens /Substantially equivalent.				
a)		Double Pole	Each	10		
b)		Triple Pole	Each	10		
c)		Four pole	Each	10		



49		Supplying and fixing 125 A 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/Siemens /Substantially equivalent.				
a)		Four pole	Each	10		
50		Supplying & Fixing of 18 to 20 watt LED Tube with batten,6000K,100 Lumen/Watt with Two years replacement warrenty.cat 6000k/80/2000 Havells/Philips/Wipro./Substantially equivalent.	Each	500		
51		Installation of exhaust fan in the existing opening including of all hardwares & making good the damage connection, testing, commissioning etc. complete as required.				
a)		Upto 450 mm sweep	Each	20		
52		Fixing only 240V SPN/415V TPN Sheet Steel Main Switch or DP/TP/FP sheet steel enclosure or SP/TP Industrial Plug,Socket directly on surface / recessed /on flat iron legs on wall along with required DP/TP/FP MCB including necessary connection, testing as required. (Enclosure/Main switch / Industrial Socket : Department supply ).	Each	20		
			Total		(`)	

N.B. : GST should be quoted separately else it would be considered as inclusive of Tax.

## 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. Any item used while execution of the work, should be duly approved by the department.
14. 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.
15. The Site Supervisors should possess supervisory competency certificate and the Electricians should have proper work permits.
16. Safety of materials issued by the Department to the Contractor is the contractors' responsibility.
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.

## **SPECIAL CONDITION**

This procedure followed for Internal TC will be as given below:

Comparative statement quoted be made for requisitions received from the users/work initiated and work order will be issued to the lowest contractor as per the comparative statement by including all the parties. The time limit for each work order will be decided by the Institute authorities and the 12months guarantee period (DLP) starts from the completion of work of each work order. Only 10% will be deducted towards security deposit towards Defect Liability Period (DLP). The tenderers are to quote the rates consistently without any scope for negotiation and to carry out the work timely. Failure to carry out the work in time will attract penalty at the rate of 0.5% of order value per week-delay to maximum of 10% of the ordered value.

As the value of each work for this proposed TC work starts from executed, following items are not scheduled but are required to be carried out at no extra cost. Testing such as IR, earth R, Inventory and submission of records.

Completing the work within the stipulated time is essence of contract. However for any unavoidable hindrance, you are required to apply for time extension approval mentioning the justified reasons of delay before date of completion.

You are required to submit the details of materials issued free of cost and deposit of old materials in the attached proforma (self explaining), with the final bill.

Misuse of the dismantled material in the institute will be viewed seriously.

Items in the schedule of works is generally required to be operated with the exemption of some anticipated items. Hence, the tenderers are required to go through the tender carefully including the specs and notes and quote the lowest comparative rate for each and every item which will enable the tenderer to become the lowest for individual work order. It may be noted that the overall tendered amount will not be the criteria for issue of work orders.

Sr. Executive Engineer (Electrical)

## **SPECIAL NOTES**

This work is a Term Contract (TC) work with anticipated/accessed for one year and hence quantity is likely to vary on actual which may please be noted. The items given in this schedule is exhaustive in nature and all items may not be operated regularly or otherwise. The contractor is to quote for all items without fail with the aim of executing the work at short notice irrespective of the quantity. The items of work for which work order is likely to be issued subsequently consists of items of contiguity in nature in general. None the less work order will be issued for items from the schedule according to the requirement.

Since the quantum of work is not guaranteed, the contractor will not have any claim for compensation for non execution of items from the schedule. It is proposed to operate this TC for a period of one year with firm rates from the date of intimation with the provision for extension with mutual consent/cancellation.

It is proposed to issue tender papers to as many contractors as possible and hence all contractors are requested to quote the rate very judiciously and competitively. It is brought to the notice that freakishly high or low rates as decided by the Institute authorities are subject to negotiation.

The contractor is to apply for extension of time irrespective of the reason for delay for consideration and approval by competent authorities of the Institute with compensation or without compensation. It is also brought to the notice that non carrying out of the works on time will attract severe action.

The contractor is to acquaint himself by visiting the site before tendering. The contractor is also advised to acquaint regarding the security and other measures being in force in the Institute.

The unit rate quoted is to be written in words as well as in figures. Offering of overall discount/rebate is to be avoided. Work order may be issued by picking up the items based on the unit rate. Through separate item is not included, submission of inventory and test report signed by all concerned is deemed to have been included and part of the work and the same is to be submitted along with the bill for each work order after signing the Measurement Book.

The tenderers are informed to return the blank tender documents complete with a covering note with reason for non quoting. This will enable further issue of tender for other works. If not returned, issue of further tender is at the discretion of the Institute.

This forms part of the Tender.

Sr. Executive Engineer (Electrical)

**Make list format**

Name of the Work :

<b>Sl. No.</b>	<b>Description of items</b>	<b>Approved makes proposed by the contractor</b>	<b>Makes approved by the Department</b>
1.			
2.			
3.			
4.			
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15.			
16.			

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Signature of E (EW)

\_\_\_\_\_  
Signature of Sr.E.E.(EW)

\_\_\_\_\_  
Signature of S.E (E&M)

