



PALAKKAD

ITI LIMITED KANJIKODE WEST: PALAKKAD – 678 623

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NOTICE INVITING QUOTATIONS

Ref: EE/PE/320/18/01-01

Date: 14/02/2018

Sealed quotations in prescribed forms are invited from experienced contractor who have carried out Electrical works costing not less than Rs.2.0 Lakhs in single contract for Electrification work for ITI Employees Cooperative Credit Society at ITI Limited, Kanjikode.

Parties quoting for the work shall furnish the (i) Permanent Account Number (PAN), (ii) GST Registration Number and (iii) details of similar works carried out during last 1 year along with the quotation.

Sl. No	Name of work	EMD Rs.	Cost of Tender Document	Tender Document Available	Time of completion of Work
1	Electrification work for ITI Employees Cooperative Credit Society	4000/-	Rs.590/-	Up to 21/02/2018	30 Days

The enquiries with schedule of quantities and terms & condition can be downloaded from our website www.itilttd-india.com or can be had from the Plant Electrical Department, ITI Limited, Kanjikode west, Palakkad - 678 623 during the working hours from 9.00 AM to 5.00 PM on all working days.

The sealed quotations duly filled in the rate and amount with the name of work and reference on the envelope along with required EMD should reach the undersigned on or before 23/02/2018 at 2.30PM. The same will be opened in the office of the undersigned in presence of the tenderers who choose to be present in the office on 23/02/2018 at 3.00PM.

Tenders shall remain firm and valid for acceptance for a period of **3 months** from the last date for receipt of the tenders.

EMD should be paid by cash payment at ITI cash counter between 1.30 PM and 3.30 PM or by Bank draft or Banker's pay order drawn in favour of ITI Limited, Kanjikode West, Palakkad -678 623 payable at Palakkad. Other modes of payment will not be accepted. The details of the Bank draft/Banker's pay order should be clearly indicated on the tender covers.

Contractors those who are using the tender documents downloaded from the web site should enclose the cost of the tender documents by a separate Bank draft drawn in favour of ITI Limited, Kanjikode West, Palakkad-678 623 payable at Palakkad along with their sealed tenders.

The company reserves the right to accept or reject any or all the tenders/quotations without assigning any reason thereof.

Deputy General Manager (Plant)

ITI Limited

Kanjikode West

Palakkad, Kerala ,

Pin - 678 623

Sub: Electrification work for ITI Employees Cooperative Credit Society

SCHEDULE OF QUANTITIES

Sl No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
1	Supply of 16 guage painted sheet steel enclosed surface mounting single door type 8 way 415V 3phase 40A 4P MCB Isolator Vertical DB fitted with din channel, copper busbar, neutral link, earth link, etc. with following incomer and out goings rating. Incomer: 40A 4Pole MCB Isolator – 1 No. 32A ELCB 100mA – 1 No Outgoings: 20A SP MCB – 20 Nos. 16A SP MCB – 4 Nos. All MCBs shall be of C-series load Characteristics	Set	1		
2	Supply of 16 guage painted sheet steel enclosed surface mounting single door type 6 way 415V 3phase 40A 4P MCB Isolator Vertical DB fitted with din channel, copper busbar, neutral link, earth link, etc. with following incomer and out goings rating. Incomer: 40A 4Pole MCB Isolator – 1 No. 32A ELCB 100mA – 1 No Outgoings: 20A SP MCB – 14 Nos. 16A SP MCB – 4 Nos. All MCBs shall be of C-series load Characteristics	Set	1		
3	Supply of 3 Phase Energy meter box made of 16 Guage sheet steel. Meter box shall have provision for fixing 3Phase 415V flush mount type energy meter and shall also have sufficient space for arranging 3 Nos. of 40/5A CTs, 3 Nos. of HRC Fuse Unit, for fixing 100A 4 Pole terminal connector and for terminating 4Cx16 sqmm. Al.cable. (CTs, HRC Fuse units, Terminal connector and meter will supply and arrange by ITI)	Nos	2		
4	Wiring for light points with 660/1100V grade 1 sq.mm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 6A piano type switches, 5 sided Heavy Duty PVC box for housing the switches decorative hylam sheet cover for switch boxes, 3 pin ceiling roses, lamp holder, earthing with 0.75sqmm flexible copper conductor etc, as per standard				
a)	Short point (Not exeeding 3 Mtr.in length.)	Nos	3		

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Signature of the Contractor

Sl No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
b)	Medium point (Exceeding 3 Mtr but not exceeding 6 Mtr. in length)	Nos	11		
c)	Long point (Exceeding 6 Mtr but not exceeding 10Mtr. in length)	Nos	11		
d)	Extra long point 2 (Exceeding 15m but not exceeding 20m in length)	Nos	1		
5	Wiring for fan points with 660/1100V grade 1.5 sq.mm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 6A piano type switches, Electronics fan regulators, 5 sided Heavy Duty PVC box for housing the switches decorative hylam sheet cover for switch boxes, 3 pin ceiling roses, earthing with 1sqmm flexible copper conductor etc, as per standard.				
a)	Medium point	Nos	6		
b)	Long point	Nos	5		
c)	Extra long point 2	Nos	2		
6	Wiring for exhaust fan points with 660/1100V grade 1.5Sqmm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 6A piano type switches, 5 pin 6A plug socket with 3 pin plug top on suitable size, 5 sided Heavy Duty PVC box for housing the switches decorative hylam sheet cover for switch boxes, earthing with 1sqmm flexible copper conductor etc, as per standard.				
a)	Medium point	Nos	1		
7	Wiring for 5 pin 6A plug sockets points with 660/1100V grade 1.5 sq.mm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 6A 5 pin plug socket, 6A piano type switches, 5 sided Heavy Duty PVC box for housing the switches decorative hylam sheet cover for switch boxes, earthing with 1sqmm flexible copper conductor etc, as per standard.				
a)	Short point	Nos	1		
b)	Medium point	Nos	7		
c)	Long point	Nos	2		

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Signature of the Contractor

Sl No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
8	Wiring for 5 pin 6A plug sockets with 660/1100V grade 1.5sq.mm flexible copper conductor PVC insulated wires on the existing switch board (switch board of item no.4,5 or item no.7) including providing 6A 3 pin plug socket and plug top with 6A piano type switch and earthing the 3rd pin with 1 Sqmm flexible copper conductor etc, as per standard	Nos	9		
9	Wiring for 6 pin 16A plug sockets point with 660/1100V grade 2.5sq.mm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 6 pin16A plug socket and 3pin plug top with 6A piano type switch, 5 sided Heavy Duty PVC box to house the socket, decorative hylam sheet cover, earthing with 1.5Sqmm flexible copper conductor etc, as per standard.				
a)	Long point	Nos	2		
b)	Extra long point-1 (Exceeding 10m but not exceeding 15m in length)	Nos	1		
10	Wiring for AC points with 660/1100V grade 2.5Sqmm flexible copper conductor PVC insulated wires in concealed/ exposed 25mm PVC conduits including providing 16 gauge painted sheet steel enclosed 6"x10" MCB Isolator enclosure with 40A DP MCB Isolator and enclosure shall have sufficient depth for fixing MCB on channel, earthing with 1sqmm flexible copper conductor etc, as per standard.				
a)	Medium point	Nos	1		
b)	Long point	Nos	1		
c)	Extra long point-1	Nos	1		
d)	Extra long point 3 (Exceeding 20m in length as required)	Nos	1		
11	Supply of following size Aluminium/ Copper conductor steel armoured PVC/XLPE insulated PVC sheathed 1100V grade cables.				
a)	4C x 10 Sqmm Al.Cable	Mtr	25		
b)	4C x 16 Sqmm Al.Cable	Mtr	30		

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Signature of Contractor

SI No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
12	Supply Cable Glands, Solder less crimping lugs, Gland earthing Copper strip, insulation Tape, etc. required for the effective termination of the following Al. Conductor steel armoured PVC/XLPE insulated MV cables.				
a)	4C x 10 Sqmm Al.Cable	Nos	2		
b)	4C x 16 Sqmm Al.Cable	Nos	2		
13	Supply of 16G sheet steel required for the cable termination box, Rain coat/roof for switch board, etc. complete with materials required for fabrication, red oxide primer, epoxy paint, etc.	Kg	30		
14	Supply of following size 660/1100 V grade flexible copper conductor PVC insulated wire in conduit for circuit wiring including termination with solderless Copper crimping lug.				
a)	1.5Sqmm copper wire	Mtr	270		
b)	2.5Sqmm copper wire	Mtr	450		
15	Supply of ISI marked 25mm size Rigid PVC conduit Black colour including bends, tees, etc. complete with saddles, spacers, etc.	Mtr	105		
16	Supply of 1200mm sweep, double ball bearing, brown colour Ceiling Fan complete with all accessories including socket type electronic fan regulator, standard down rod, etc. as per standard.	Nos	5		
17	Supply 300mm sweep Single phase Heavy Duty Exhaust Fan complete with all accessories including louver/ shutter as required as per standard.	Nos	1		
18	Supply of following size good quality electrolytic Copper earthing conductor and all other accessories required for proper laying and termination.				
a)	10 SWG Bare copper	Mtr	50		
19	Providing and fixing of GI pipe down rod (about 0.5M) for ceiling fan/Tube set including threading, fixing etc, and painting as required.	Nos	37		
20	Chipping the concrete ceiling, finding the steel rod and providing 12mm dia MS fan hooks and filling the chipped portion with cement.	Nos	7		
21	Fabrication and fixing of cable termination box, etc. on wall /work benches/trays as required as per standard.	Kg	30		

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Signature of Contractor

Sl No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
22	Fixing of 40A 8 way vertical DB on the wall/tray properly as required as per standard.	Set	1		
23	Fixing of 40A 6 way vertical DB on the wall/tray properly as required as per standard.	Set	1		
24	Laying of following size 1100V grade steel armoured cables on wall, Cable tray, Readymade cable trench, etc. including providing GI clamps, Screws, Nuts and bolts, etc.as required as per standard.				
a)	4C x 10 Sqmm Al.Cable	Mtr	25		
b)	4C x 16 Sqmm Al.Cable	Mtr	30		
25	Termination of following size cable using above cable glands, solder less crimping lugs,etc. and providing gland earthing as required for effecting proper connection as per standard.				
a)	4C x 10 Sqmm Al.Cable	Nos	2		
b)	4C x 16 Sqmm Al.Cable	Nos	2		
26	Drawing of following PVC insulated stranded Copper conductor Wires through conduits and termination at switches, etc. as required.				
a)	1.5Sqmm copper wire	Mtr	270		
b)	2.5Sqmm copper wire	Mtr	450		
27	Fixing of 25mm Rigid PVC conduits on the wall/trays as required as per standard	Mtr	105		
28	Fixing in position, effecting proper connection, testing and commissioning of LED tube light fittings on to the wall/ceiling/truss, etc. including providing necessary fixing arrangements, termination of wires/cables as required as per standard.(not included in the supply portion will be supplied by ITI)	Nos	26		
29	Fixing of 1200mm sweep ceiling fan in the ceiling/ or truss including arranging and fixing hanging clamps, etc., fixing down road, etc. as required and commissioning the fan by giving proper connection.(not included in the supply portion will be supplied by ITI)	Nos	14		

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Signature of Contractor

Sl No	Description of Work	Unit	Qty	Rate including Tax	Amount in Rs
30	Fixing of following heavy duty exhaust fans on the wall including fixing louvers in such a way that the shutters will be opened during the working of exhaust fan and it is closed during the non working of exhaust fan in the provision given and commissioning the fan by giving proper connection. (Provision given separately for all the materials required for the erection)				
a)	300mm sweep Single phase	Nos	1		
31	Laying of 10SWG bare copper earthing conductor and effecting connections including providing all fixing accessories and effecting proper connection as required as per standard.	Mtr	50		
Total				Rs.	

(Rupees.....
..... only)

Signature of the Contractor

(Seal)

Deputy General Manager (Plant)

Annexure-I

List of Approved Manufacturers for Different Materials

Sl. No.	Details of Materials	Name of Manufacturers
1.	MCB and MCCB	L&T/ GE Power/C&S/Crompton/ Scheineder/ Standard/Indoasian or approved equivalent
2.	Armoured Aluminium/ Copper Cable	CCI/Incab/Gloster/Nicco/Universal/Havells/ Finolex/V-Guard/Paragon/Empire/Anchor/Sark or approved equivalent
3.	PVC Insulated Copper Wires/Cables	Finolex/V-guard/Havells/Anchor/Sark or approved equivalent
4.	Ceiling Fan/ Exhaust Fan	Compton/Havells/Ralifan/VGuard/Almonard or approved euivalent
5.	Cable Glands	Dowells/Jainson/or approved equivalent
6.	Any other materials	As approved by Engineer-in-Charge

Signature of the Contractor

Deputy General Manager (Plant)

Annexure-II

GENERAL TERMS AND CONDITIONS FOR ELECTRICAL CONTRACTORS

1. The Contractor shall commence the work immediately on issue of notice awarding the work/ work order.
2. The work shall be completed in all respects within 30 days and any delay in the part of the Contractor will render action being taken against him to enforce penal measures similar to the action envisaged in Clause 7, 8 & 9.
3. All materials brought by the Contractor for use in the work has to be examined and approved by the Engineer- in- charge or his representative before use. Inferior or defective materials will be rejected and the Contractor shall substitute them as per the directions of the Engineer-in-charge. Test certificates are to be produced where ever required and as directed by the Engineer-in-charge.
4. The work shall be carried out in accordance with IE Rules, relevant ISI specifications and to the satisfaction of the Engineer-in-charge and in case of defective or improper work or work of poor workmanship the work will be re done, made good or amended as directed by the Engineer-in-charge at the cost of the Contractor.
5. In case of particular part of work not included originally but to be carried out by the Contractor for due completion, payment shall be made to contractors based on the rate derived from the rates for a similar class of work as specified in the Contract for the work or prevailing market rate or as per the CPWD Schedule of prevailing rates.
6. Power required for construction work such as drilling, welding, temporary illumination etc. will be supplied to the Contractor on free of cost from the existing outlets.
7. In case of abandonment of work by the Contractor during the progress of the work, the Security Deposit at the credit of Contractors shall be forfeited and the balance work will be carried out by engaging a third agency and any extra cost incurred will be recovered from the defaulting Contractor.
8. The work shall be carried out subject to the above conditions and in the event of non-fulfillment on any of the conditions, the Contract will be treated as cancelled and action taken against the contractor deemed fit besides the forfeitures of the Security Deposit at the contractors credit.
9. In case the work is not completed in the manner mentioned above to the complete satisfaction of the company in every respect within the aforesaid time limit of 30 days from the date stipulated in the work order, the Contractors shall agree to pay penalty of 1.5% of the value of the work order for each month of delay beyond the date stipulated for completion on per day basis, subject however to a maximum of 10% of the value of work order. It is agreed that time is the essence of the contract.
10. The Contractor shall visit the site and shall satisfy himself as to conditions under which the work is to be performed. No extra claim consequence of ignorance or on ground of insufficient description will be allowed at a later date.
11. Contractor has to verify the Schedule of Quantities with site requirements before affecting the supply of materials. After verifying the site, the Contractor has to supply all required materials for completing the work. The materials supplied but not erected (rendered surplus) is the property of the Contractor and hence to be taken out by him. The payment if any made on this account will be deducted from the final bill of the Contractor for the subject work.
12. The Contractor shall make his own arrangement for the safe custody of his store.
13. During the execution of work, if minor alterations/additions are required, the same shall be done and nothing extra shall be paid on this account.
14. The quantities in the Schedule of quantities are provisional and the Contractor will be paid for the actual quantities of work executed at site at the rates quoted in his tender. The owner reserves the right to increase or decrease any of the quantities or to totally omit any item of work and any claims by the Contractor in this account will not be entertained.

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Signature of Contractor

15. The contractors should dispose the debris and rubbish on day to day basis as per directions of Engineer-in-charge. If the debris is not removed within 3 days, the Company will clear the debris and recovery for cost incurred will be debited from contractors account.
16. **The rates are inclusive of all Taxes and Duties and also inclusive of PF & ESI contributions to their workmen engaged on the work and are final.**
17. **Taxes on works contract and any other levies that may be enforced by the Government from time to time will be borne by the Contractor. Company will make deduction at source on this account at the prevalent rate as applicable for works contract. Statutory levies like Income tax, ESI etc. are to be borne by the Contractor. Contractor has to produce the muster roll along with ESI numbers, while submitting the bills.**
18. The successful contractor has to pay by way of Cash/Bank Draft, the 5% of accepted tender value within 7 days of the acceptance of the contract as Security Deposit for the due and faithful fulfillment of the contract by the contractor. If the contractor fails to pay the Security Deposit by way of Cash/Bank Draft to make up the Security Deposit 5% shall be recovered by 5% deduction from the Contractors running bills.
19. Bills shall be submitted in GST Format only. 75% of the supply value will be paid against delivery of materials at site on our inspection and acceptance. 75% of the work value will be paid against completion of the work on our inspection and acceptance. 100% of the contract value will be released after satisfactory completion of the entire work.
20. 50 % of Security Deposit will be refunded after completion of the work and payment of final bills and balance 50% after completion of the Defects Liability period of One Year from the date of completion. During the defects liability period the contractor shall be responsible for any defects in materials or workmanship that may develop in the works and shall remedy the same at his own cost to the entire satisfaction of the Engineer-in-charge.
21. The Contractor shall have to carryout additional works to the tune of $\pm 20\%$ of total accepted contract value at the accepted rates if required.
22. The work will not be considered as complete till all the component of the Electrical installation provided for the Contractor that has been installed at site in all respects have been inspected/tested by the Engineer-in-charge to his entire satisfaction.
23. Safety is the essence of this work. The contractor has to take all safety precautions during the course of work. The contractor has to make his own arrangements for providing safety appliances to their workmen engaged on the work.
24. The Contractor shall be responsible for any accidents or other compensation payable to the workmen employed and working under the control of the Contractor and the COMPANY has no sort of liability in the matter, and that if any payment would have to be made by the COMPANY the same shall be reimbursed by the Contractor.
25. For items of work involving use of cement, rate quoted shall include the cost of cement unless otherwise specified.
26. The manufactures of the materials required for the work shall be as per the List of Approved Manufactures for different materials
27. For any point not covered under these special conditions company's General Terms and Conditions of contract for Electrical works to be referred and CPWD specifications Vol. I & II, 2014 will also form part of the contract.

Signature of Contractor
(Seal)

Deputy General Manager (Plant)