



ESTATE MAINTENANCE DEPARTMENT / ELECTRICAL
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15,
TAMIL NADU, GOVT OF INDIA (Deemed University)

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TENDER NOTIFICATION

Date:31.10.2015

Ref No: NITT/EO/EMD/EE (E)/AE (P&D)/Enq.No:31-33/15-16.

The Estate Officer, Estate Maintenance Department , NIT,Trichirappalli- 620 015 invites on behalf of The Director, NIT,Trichirappalli-620 015.Sealed item rate tenders from the approved and eligible contractors of NITT/CPWD and those in the appropriate list of Tamilnadu state PWD, Railways, MES and BSNL for the following work. Sealed tenders will be received by the **Registrar, National Institute of Technology** at his Office at National Institute of technology, Tiruchirappalli-15 up to **3.00 P.M on 16.11.2015.**

Details

Enq No	Name of works & Location	Period of completion in days	Estimate cost put to tender (Rs)	Earnest Money (Rs)	Tender cost (Rs)	Last date and time of submission of Tender	Time and date of opening of Tender
31	Providing power supply to experimental and numerical investigation of Gas-solid reaction in a tubular reactor project near Sewage Treatment Plant (STP) in Chemical Engg dept.	120	951929	19039	525	At 3.00 PM on 16.11.2015	At 3.30 PM on 16.11.2015
32	Providing separate Outdoor feeder pillar for A.C's Circuits to the following departments are SJB building,New MBA block ,Lyceum and ECE dept.	120	699585	13992	525	At 3.00 PM on 16.11.2015	At 3.30 PM on 16.11.2015
33	Conversion of single phase power supply into 3ph power supply to 11- 12th street streets Quarters	120	499780	9996	525	At 3.00 PM on 16.11.2015	At 3.30 PM on 16.11.2015

The tender should accompany, Earnest Money Deposit and Tender cost as detailed above through two different Demand Drafts payable at Tiruchirappalli, Drawn in favor of **The Director, National Institute of Technology, Trichy-15**. This earnest money will be refunded to the unsuccessful tenderer or rejection of the tender or at the expiry of two months from date of tender, whichever is earlier. The earnest money will be retained in the case of the successful tenderer and will not carry any interest. Tender must be submitted in sealed covers and should be addressed to The Director, National Institute of Technology, Trichirappalli-15 and the name of the tenderer, name of the work and Ref .No. being noted on the cover. **The rates should be quoted inclusive of all taxes and duties. Submission of tender without EMD is liable to be rejected.**

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Estate Officer

SCHEDULE OF WORK

State : Tamilnadu
Branch:Electrical

Division EMD
Sub-Division EMC

Enq.No. 31

Name of Work : Providing power supply to experimental and numerical investigation of Gas-solid reaction in a tubular reactor project near Sewage Treatment Plant (STP) in Chemical Engg dept.

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
1	W I R I N G					
1.1	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 piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.1.1	Group B	15	Point			
1.2	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					
1.2.1	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	50	Metre			
	Sub-Total					
2	E A R T H I N G					
2.1	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	25	Metre			
2.2	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	40	Metre			
2.3	Supplying and fixing cosmos earthig electrode systems.					
2.3.1	Cosmos Roma 40mm Dia 3 Mtrs Length with moisture Enhancer 25kg.	2	Metre			
	Sub-Total					
3	MV CABLE LAYING					

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
3.1	Supply and laying of following size Double walled Corrugated High Density Polyethylene pipe having corrugation on the outer wall and plain surface inner wall conforming to IS 14930 part- I and part -II complete with necessary HDPE fitting for protection of 1.1 KV grade under ground cable directly in ground at a depth 75cm including excavation and refilling the trench etc as required.					
3.1.1	90mm/76mm (Outer Nominal Dia / Inner Nominal Dia)	1000	mtrs			
	Sub-Total					
4	MV CABLE JOINTING & END TERMINATION					
4.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
4.1.1	3½ X 300 sq. mm (70mm)	8	Each			
4.2	Supplying and making indoor end termination with copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.					
4.2.1	4X10Sq.mm	2	each			
	Sub-Total					
5	FABRICATION OF CUBICLE BOARDS/LADDER/SOLAR STRUCTURE					
5.1	Manufacturing, Supplying, installation, testing and commissioning of Indoor cubicle flush type floor mounted compartmentalized main power cum control panel made out of not less than 2.2 mm thick MS sheet connection inter-connection etc. as per CPWD specifications (Part IV & V).Providing and fixing following switch gears with cable entry boxes for both incoming and outgoing cables termination, glands, interconnection, connections powder coated painting, earthings , and including of all erection, Labelling of incoming and outgoing feeders, cable trench formation works & transport charges etc., as required. The panel drawing should be submitted before execution of the works. (Make: L&T/Legrand)					

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
5.1.1	Essential supply Pannel size 2100mm x1750 mm x 450mm mm deep (Nominal) a) 4 strip copper bus bars of suitable capacity, b) Incomer 320A,4P,36kA MCCB Thermal Magnetic release-1 No,c) Outgoings 32A,4P,36kA MCCB Thermal Magnetic release-1 No,d) Outgoings 100A,4P,36kA MCCB Thermal Magnetic release-1 No e) Outgoings 125A,4P,36kA MCCB Thermal Magnetic release-2 Nos,f)Outgoings 63A,4P,36kA MCCB Thermal Magnetic release-3 Nos g) Outgoings 32A,4P,36kA MCCB + DOL Starter kit 3.3kW with all accessories and wiring connections-2 Nos,h) Outgoings 32A,4P,36kA MCCB + DOL Starter kit 1.1kW with space provision for VFD(VFD NIT's Scope)-1 No including all accessories and wiring connections -1 No, i) LED VEGA multifunction meter class 1 with RS 485 port (WDM303FDWA1) Make -L&T -1 No,j) CTS-3Nos,k) 5A Bakelite fuses-3 Nos,l) R, Y,B indicators-each 1,m)Toggle switch-3Nos inclusive of all wiring charges etc as required.	1	each			
5.2	Fabrication, supply of out-door feeder pillar type made out of not less than 2.2 mm thick MS sheet and angle iron base frame with hinged door on both side and godden locks welded on the door i/c painting connection inter-connection etc. as per CPWD specifications (Part IV & V) of following size and providing and fixing following switch gears with cable entry boxes for both incoming and outgoing cables termination, glands, interconnection, connections powder coated painting, earthings , including of all erection, Labelling of incoming and outgoing feeders & transport charges etc., as required. The panel drawing should be submitted before execution of the works. (Make: Legrand/Schneider/ L&T). "Specification for Thermal Magnetic MCCB Conforms to IS/IEC 60947-2 & IEC 60947-2, Ics=100% of Icu,Suitable for Isolation,Adjustable Overload from 0.8-1.0 X In,Adjustable short circuit from 6-10 XIn, Provision of Manual, Rotary or motorized versions.Wide range of snap fit internal and external accessories					

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
5.2.1	Essential supply Pannel size 1900mm x1150 mm x 450mm mm deep (Nominal) a) 4 strip copper bus bars of suitable capacity,b)Incomer 400A,4P,36kA MCCB Thermal Magnetic release-1 No, c)Outgoing 320A,4P,36kA MCCB Thermal Magnetic release-1 No,d) Outgoing 250A,4P,36kA MCCB Thermal Magnetic release-1No e) Dummy Compartment 200A,4P,36kA MCCB Thermal Magnetic release -1 No,e) LED VEGA multifunction meter class 1 with RS 485 port (WDM303FDWA1) Make -L&T ,f) CT'S-3 Nos,g) 5A Backlite fuses-3Nos,h) R,Y,B indicators-each 1,i)Toggle switch-3Nos	1	each			
	Sub-Total					
6	Supplying of Cables (MARKET ITEM)					
6.1	Supplying and fixing of following size ISI marked PVC insulated and PVC unsheathed copper single core and multi-core shaethed bright annealed bare copper flexible cables for voltage grade 1.1 KV grade as required.(Make:Finolex,Gloster,Havells and Polycab)					
6.1.1	6x4sqmm	35	metre			
	Sub-Total					
7	Supply of Light Fixtures with Lamps (MARKET ITEM)					
7.1	Supply and fixing of industrial batten suitable for TL5 lamp 28w. Available with optional reflector. (Make: Bajaj,Crompton Greaves, & philips etc) (with 2 years manufacturer's warranty)					
7.1.1	TMSI 22 M 1 X TL5 -28W EBT	12	each			
	Sub-Total					
8	MCCB,MCB&DB'S DSR 2012					
8.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.(Make:Legrand/Siemens)					
8.1.1	4 Pole MCCB 400A , 36KA DPX Thermal & Microprocessor Release	1	each			
	Sub-Total					
	Total					

SCHEDULE OF WORK

State : Tamilnadu
Branch:Electrical

Division EMD
Sub-Division EMC

Enq.No. 32

Name of Work : Providing separate Outdoor feeder pillar for A.C's Circuits to the following departments are SJB building,New MBA block ,Lyceum and ECE dept.

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
1	E A R T H I N G					
1.1	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	20	Metre			
1.2	Supplying and fixing cosmos earthig electrode systems.					
1.2.1	COSMOS ROMA 40mm DIA 2 Mtrs LENGTH WITH MOISTURE ENHANCER 25 Kg.	1	each			
	Sub-Total					
2	MV CABLE LAYING					
2.1	Supply and laying of following size Double walled Corrugated High Density Polyethylene pipe having corrugation on the outer wall and plain surface inner wall conforming to IS 14930 part- I and part -II complete with necessary HDPE fitting for protection of 1.1 KV grade under ground cable directly in ground at a depth 75cm including excavation and refilling the trench etc as required.					
2.1.1	90mm/76mm (Outer Nominal Dia / Inner Nominal Dia)	170	mtrs			
	Sub-Total					
3	MV CABLE JOINTING & END TERMINATION					
3.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
3.1.1	3½ X 95 sq. mm (45mm)	8	Each			
3.1.2	3½ X 240 sq. mm (62mm)	2	Each			
	Sub-Total					
4	CUBICLE BOARDS (MARKET ITEM)					

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
4.1	Fabrication, supply of out-door flush type feeder pillar made out of not less than 2.2 mm thick MS sheet and angle iron base frame with hinged door on both side and gowden locks welded on the door i/c painting connection inter-connection etc. as per CPWD specifications (Part IV & V) of following size and providing and fixing following switch gears with cable entry boxes for both incoming and outgoing cables termination, glands, interconnection, connections powder coated painting, earthings , including of all erection, Labelling of incoming and outgoing feeders & transport charges etc., as required. The panel drawing should be submitted before execution of the works. (Make: L&T/Legrand).					
4.1.1	Essential supply Pannel size 1600 mm x1700 mm x 400 mm deep a) 4 strip copper bus bars suitable for incomer as required b) Incomer MCCB 400A,4P,36KA(0255 38) thermal magnetic and MP based with panel mouting type-1No,c) outgoing MCCB 200A,4P,36KA(4202 48) thermal magnetic with panel mouting type-2Nos,d) Outgoings MCCB 160A,4P,36KA(4200 97) thermal magnetic with panel mouting type-4Nos,e) Multifunction meter 0-500 V digital type (96x96mm) with L & T Quster Intelligent selector switch 1 set,f)3ph Ammeter class 1 (WDS301FCA00)-1No,g)3ph Voltmeter class 1 (WDS301FEV00)-1No,h) CT'S-3Nos, i) 5A Backlite fuses-3Nos,j) R,Y,B indicators-each 1, k) Push type ON/OFF switch-3Nos	1	each			
	Sub-Total					
5	Supplying of Cables (MARKET ITEM)					
5.1	Supplying of following size ISI marked PVC insulated and PVC sheathed aluminium grade with armoured as required.(Make:Finolex,Gloster and Polycab)					
5.1.1	3½ X 240 Sq mm	170	Metre			
	Sub-Total					
6	Supply of Light Fixtures with Lamps (MARKET ITEM)					
6.1	Supply and fixing of industrial batten suitable for TL5 lamp 28w. Available with optional reflector. (Make: Bajaj,Crompton Greaves, & philips etc) (with 2 years manufacturer's warranty)					
6.1.1	TMSI 22 M 1 X TL5 -28W EBT	95	each			
6.1.2	TMSI 22 M 2 X TL5 -28W EBT with lamp	5	each			
	Sub-Total					

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
7	Adaptor box (MARKET ITEM)					
7.1	Cable adaptor box (MARKET ITEM)					
7.1.1	Supplying and fixing of M.S Box of following size with painting with red oxid and enamel paint coating as required suitable MCCB DB.(Size 500x250x100 mm)	1	each			
	Sub-Total					
8	MCCB,MCB&DB'S DSR 2012					
8.1	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, 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)					
8.1.1	4 way (8 + 12), Double door	3	each			
8.2	Supplying and fixing for following amps rating, 240/415 volts,"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/Siemens)					
8.2.1	Four pole 40-63 Amps MCB	3	each			
	Sub-Total					
	Total					

SCHEDULE OF WORK

State : Tamilnadu
Branch:Electrical

Division EMD
Sub-Division EMC

Enq.No. 33

Name of Work : Conversion of single phase power supply into 3phase power supply to 11-12th street quarters.

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
1.1	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					
1.1.1	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	375	Metre			
	Sub-Total					
2	E A R T H I N G					
2.1	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	10	Metre			
	Sub-Total					
3	SUPPLY (MARKET ITEM)					
3.1	Repairing and painting works.					
3.1.1	Labour charges for removing of damaged Wires/DBs/Switches etc.as required	20	Ls			
	Sub-Total					
4	MCCB,MCB&DB'S DSR 2012					
4.1	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, 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)					
4.1.1	4 way (8 + 12), Double door	20	each			
4.2	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.					
4.2.1	Single pole	200	each			
4.2.2	MCB Blanking plates.					
		30	each			

SLNo	SUB HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE(Rs)	RATE (In words)	AMOUNT (Rs)
4.3	Supplying and fixing for following amps rating, 240/415 volts,"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/Siemens)					
4.3.1	Four pole 40-63 Amps MCB	20	each			
4.3.2	RCCBs 4 pole 40 A 30mA	20	each			
	Sub-Total					
	Total					