



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

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**TENDER NOTIFICATION**

**Ref No: NITT/EO/EMD/EE (E)/AE (P&D)/Enq.No:50-54/15-16.**

**Date: 28.01.2016**

The Estate Officer, Estate Maintenance Department , NIT, Tiruchirappalli- 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 12.02.2016**

**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
50	Providing Lighting Feeder Pillar box to feed power supply for various departments.	120	951614	19032	525	At 3.00 PM on 12.02.2016	At 3.30 PM on 12.02.2016
51	Providing new lighting cable lines to various departments.	120	999986	20000	525	At 3.00 PM on 12.02.2016	At 3.30 PM on 12.02.2016
52	Providing Power Feeder Pillar box to feed power supply for various departments.	120	951349	19027	525	At 3.00 PM on 12.02.2016	At 3.30 PM on 12.02.2016
53	Providing new Power cable lines to various departments	120	999213	19984	525	At 3.00 PM on 12.02.2016	At 3.30 PM on 12.02.2016
54	Providing High mast lighting system near KV School premises	120	951869	19037	525	At 3.00 PM on 12.02.2016	At 3.30 PM on 12.02.2016

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.**

**-Sd-  
Estate Officer**

NITT web site Details of tender may be seen at web [http: www.nitt.edu](http://www.nitt.edu)

## SCHEDULE OF WORK

State Tamilnadu Enq No:50

Branch Electrical

Name of Work : Providing Lighting Feeder Pillar box to feed power supply for various departments.

Division EMD  
Sub-Division EMC

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	MV CABLE LAYING					
1.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.					
1.1.1	Above 185 sq. mm and upto 400 sq. mm	225.00	Metre			
1.2	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.					
1.2.1	Above 185Sq.mm upto 300Sq.mm,Size :90mm/76mm (OD/ ID)	25.00	mtrs			
	Sub-Total					
2	FABRICATION OF CUBICLE BOARDS/LADDER/SOLAR STRUCTURE					

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
2.1	<p>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 gowden locks welded on the door i/c painting connection inter-connection etc. as per CPWD specifications (Part IV &amp; 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 &amp; transport charges etc., as required. The panel drawing should be submitted before execution of the works. (Make: L&amp;T/Legrand)."Specification for Microprocessor based MCCB  Conforms to IS/IEC 60947-2 &amp; IEC 60947-2, Ics=100% of Icu,Suitable for Isolation,Adjustable Overload from 0.4-1.0 X In,Adjustable short circuit from 1.5-8XIr, Inbuilt Instantaneous protection,Provisional of thermal memory : ON/OFF,Variable trip class at 7.2 lr &amp; 6 lr, Front LED indication of Over load (Ready, Over load pre-alarm &amp; Overload),Provision of Manual, Rotary or motorized versionsWide range of snap fit internal and external accessories."Specification for Thermal Magnetic MCCB  Conforms to IS/IEC 60947-2 &amp; 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</p>					

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
2.1.1	Essential supply Lightning Pannel size 2100 mm x 2700 mm x 450 mm deep (Nominal) a) 4 strip copper bus bars of 400 A capacity as required b)Incomer Motorised MCCB Combination-DN3 400N 4P MTX2.0 (CM97201OOROAG),UVR,S-EOM dsine DN3+EOM 4P MTX2.0 400 50/50 UVR-1No c)Incomer 400A,4P,36kA MCCB Thermal Magnetic release-1No,d) 250A,4P,36kA MCCB Thermal Magnetic release-3Nos,e)200A,4P,36kA MCCB Thermal Magnetic release-1No f) 160A,4P,36kA MCCB Thermal Magnetic release-3Nos +1No(Spare),g) 63A,4P,36kA MCCB Thermal Magnetic release-1Nos,h) LED VEGA multifunction meter class1 with RS 485 port(WDM303FDWA1) Make-L&T-1No.i) CT'S-3Nos,j) 5A Backlite fuses-3Nos,k)R, Y,B indicators-each 1,l)Push type ON/OFF switch-3Nos inclusive of all wiring charges etc as required.	1.00	each			
	Sub-Total					
3	Supplying of Cables ( MARKET ITEM )					
3.1	Supplying of following size ISI marked PVC insulated and PVC sheathed aluminium grade with armoured as required.(Make:Finolex,Gloster and Polycab)					
3.1.1	3½ X185 Sq mm	200.00	Metre			
3.1.2	3½ X 240 Sq mm	239.00	Metre			
	Sub-Total					
	Total					

## SCHEDULE OF WORK

State Tamilnadu Enq No:51

Branch Electrical

Name of Work : Providing new lighting cable lines to various departments.

Division EMD

Sub-Division EMC

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	MV CABLE LAYING					
1.1	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.					
1.1.1	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	42.00	Metre			
1.2	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.					
1.2.1	Above 25Sq.mm upto 185Sq.mm, Size : 77mm/63mm (OD/ ID)	790.00	mtrs			
	Sub-Total					
2	MV CABLE JOINTING & END TERMINATION					
2.1	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.					
2.1.1	3½ X 120 sq. mm (45mm)	8.00	Each			
2.1.2	3½ X 185 sq. mm (57mm)	2.00	Each			
	Sub-Total					
3	CIVIL ITEMS					
3.1	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.					
3.1.1	300 mm dia	30.00	metre			

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
	Sub-Total					
4	Supplying of Cables ( MARKET ITEM )					
4.1	Supplying of following size ISI marked PVC insulated and PVC sheathed aluminium grade with armoured as required.(Make:Finolex,Gloster and Polycab)					
4.1.1	3½ x 120 sq mm	790.00	Metre			
4.1.2	3½ X185 Sq mm	140.00	Metre			
	Sub-Total					
5	Adaptor box ( MARKET ITEM )					
5.1	Cable adaptor box ( MARKET ITEM )					
5.1.1	Supplying and fixing of M.S Box with copper bus bar of following size with painting with red axid and enamel paint coating as required suitable for out door.(Size 300x250x150 mm )	2.00	each			
	Sub-Total					
	Total					

## SCHEDULE OF WORK

State Tamilnadu Enq No:52

Branch Electrical

Division EMD  
Sub-Division EMC

Name of Work : Providing Power Feeder Pillar box to feed power supply for various departments.

ITEM	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 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.	50.00	Metre			
1.2	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)	30.00	Metre			
1.3	Supplying and fixing cosmos earthig electrode systems.					
1.3.1	COSMOS ROMA 40mm DIA 2 Mtrs LENGTH WITH MOISTURE ENHANCER 25 Kg.	4.00	each			
	Sub-Total					
2	MV CABLE LAYING					
2.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.					
2.1.1	Above 95 sq. mm and upto 185 sq. mm	480.00	Metre			
2.1.2	Above 185 sq. mm and upto 400 sq. mm	250.00	Metre			
2.2	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 as required.					
2.2.1	Supplying and making LT cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) of size 60 cm X 30 cm with a thickness of 8cm including inscription duly engraved as required.	25.00	each			

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
2.3	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.					
2.3.1	Above 185Sq.mm upto 300Sq.mm,Size :90mm/76mm (OD/ ID)	25.00	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 185 sq. mm (57mm)	2.00	Each			
3.1.2	3½ X 240 sq. mm (62mm)	4.00	Each			
3.1.3	Retermination of 3½ X 185 sq. mm (57mm)	2.00	Each			
	Sub-Total					
4	MV OVER HEAD LINE WORK					
4.1	Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.	650.00	Kg			
4.2	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.	25.00	Each			
	Sub-Total					
5	FABRICATION OF CUBICLE BOARDS/LADDER/SOLAR STRUCTURE					

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
5.1	<p>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 gowden locks welded on the door i/c painting connection inter-connection etc. as per CPWD specifications (Part IV &amp; 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 &amp; transport charges etc., as required. The panel drawing should be submitted before execution of the works. (Make: L&amp;T/Legrand)."Specification for Microprocessor based MCCB  Conforms to IS/IEC 60947-2 &amp; IEC 60947-2, Ics=100% of Icu,Suitable for Isolation,Adjustable Overload from 0.4-1.0 X In,Adjustable short circuit from 1.5-8XIr, Inbuilt Instantaneous protection,Provisional of thermal memory : ON/OFF,Variable trip class at 7.2 lr &amp; 6 lr, Front LED indication of Over load (Ready, Over load pre-alarm &amp; Overload),Provision of Manual, Rotary or motorized versionsWide range of snap fit internal and external accessories."Specification for Thermal Magnetic MCCB  Conforms to IS/IEC 60947-2 &amp; 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.</p>					

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
5.1.1	Essential supply Power Pannel size 2100 mm x 2700 mm x 450 mm deep (Nominal).a) 4 strip copper bus bars of 400 A capacity as required.b) Incomer Motorised MCCB Combination-DN3 400N 4P MTX2.0(CM97201OOROAG),UVR,S-EOM dsine DN3+EOM 4P MTX2.0 400 50/50 UVR -1 No,c)Incomer 400A,4P,36kA MCCB Thermal Magnetic release-1No,d) 250A,4P,36kA MCCB Thermal Magnetic release-4Nos,e) 200A,4P,36kA MCCB Thermal Magnetic release-2Nos,f) 160A,4P,36kA MCCB Thermal Magnetic release-1No+Spare compartment- 1No ,g) 63A,4P,36kA MCCB Thermal Magnetic release-1Nos,h) LED VEGA multifunction meter class 1 with RS 485 port (WDM303FDWA1) Make -L&T -1No,i) CT'S-3Nos,j) 5A Backlite fuses-3Nos,k) R,Y,B indicators-each 1,l) Push type ON/OFF switch-3Nos including of all wiring charges etc as required	1.00	each			
	Sub-Total					
6	Supplying of Cables ( MARKET ITEM )					
6.1	Supplying of following size ISI marked PVC insulated and PVC sheathed aluminium grade with armoured as required.(Make:Finolex,Gloster and Polycab)					
6.1.1	3½ X 240 Sq mm	275.00	Metre			
	Sub-Total					
	Total					

## SCHEDULE OF WORK

State Tamilnadu Enq No:53

Branch Electrical

Name of Work : Providing new Power cable lines to various departments

Division EMD  
Sub-Division EMC

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	MV CABLE LAYING					
1.1	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.					
1.1.1	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	15.00	Metre			
1.2	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.					
1.2.1	Above 25Sq.mm upto 185Sq.mm, Size : 77mm/63mm (OD/ ID)	810.00	mtrs			
	Sub-Total					
2	MV CABLE JOINTING & END TERMINATION					
2.1	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.					
2.1.1	3½ X 120 sq. mm (45mm)	6.00	Each			
2.1.2	3½ X 185 sq. mm (57mm)	2.00	Each			
	Sub-Total					
3	CIVIL ITEMS					
3.1	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.					
3.1.1	300 mm dia	10.00	metre			

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
	Sub-Total					
4	Supplying of Cables ( MARKET ITEM )					
4.1	Supplying of following size ISI marked PVC insulated and PVC sheathed aluminium grade with armoured as required.(Make:Finolex,Gloster and Polycab)					
4.1.1	3½ x 120 sq mm	810.00	Metre			
4.1.2	3½ X185 Sq mm	140.00	Metre			
	Sub-Total					
5	Adaptor box ( MARKET ITEM )					
5.1	Cable adaptor box ( MARKET ITEM )					
5.1.1	Supplying and fixing of M.S Box with copper bus bar of following size with painting with red axid and enamel paint coating as required suitable for out door.(Size 300x250x150 mm )	2.00	each			
	Sub-Total					
	Total					