

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

**Tender Notice No. 10/IWD/ED/37**

**SCHEDULE OF QUANTITY**

Name of work: Part-A: Replacement of defective and damaged MCCB, heavy duty capacitor, fully automatic starter, contractor at S.T. W-5, D.T.W-15, Substation No. 8 and other associated works. Part-B: Replacement of defective capacitors and adding some new banks in capacitor panel installed at Substation No. 6.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
	<b>Part-A:</b>				
1	Providing and fixing following rating and breaking capacity and pole MCCB with adjustable thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	200 A 25kA TPN	1.00	Nos.		
2	Supplying, fixing, testing and commissioning of following capacitor including dismantling of existing defective and damaged contactor etc as required complete.				
a)	20 KVAR havy duty Ca. no. LV Capacitor CYL HD F5 V440 ABB make	2.00	Nos.		
3	Supplying and fixing Connecting and commissioning of fully automatic starter of following capacity electric motors, 415 V, 50 Hz, 3 phase, in sheet steel enclosure C&S make for Submersible pump as required complete.				
a)	50 HP (Relay 38-50A) Cat No. BE3-SPSSDX404	1.00	Nos.		
b)	25 HP (Relay 18-25A) Cat No. BE3-SPSSDX254	2.00	Nos.		
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required				
a)	3 x 16 sq. mm	1.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
5	Dismantling conciled & damaged DB/TPN Switches/starter/ loose wire boxes along with all accessories and depositing the same in the store repairing the damages as reqd complete.	3.00	Nos.		
6	S&F, copper lug /reducer terminals/ inline connector terminals suitable for following size of conductor.				
a)	16 sq.mm.	8.00	Nos.		
	<b>Part-B:</b>				
1	Providing and fixing following rating and breaking capacity and pole MCCB with adjustable thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	100 A TP	3.00	Nos.		
b)	150/160 A TP	4.00	Nos.		
c)	400 A 35kA TP	1.00	Nos.		
2	Supplying, fixing, testing and commissioning of following capacitor including dismentling of existing defective and damaged contactor etc as required complete.				
a)	25 KVAR havy duty Ca. no. LV Capacitor CYL HD F5 V440 ABB make	8.00	Nos.		
b)	15 KVAR havy duty Ca. no. LV Capacitor CYL HD F5 V440 ABB make	2.00	Nos.		
c)	10 KVAR havy duty Ca. no. LV Capacitor CYL HD F5 V440 ABB make	2.00	Nos.		
3	Supplying & Fixing contactor for capacitor switching 3 pole AC oprated in place of defective and damaged contactor as required complete.				
a)	50 KVAR Ca. no. UA63-30-00RA make ABB	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b)	22 KVAR Ca. no. UA26-30-10RA make ABB	2.00	Nos.		
4	Supplying & Fixing APFCR (RVC 12 100-440V) relay in place of defective and damaged realy as required complete.	2.00	Nos.		
5	Supplying, connecting and commissioning of following size copper busbar including bending to suitable shape, making hole for nut-bolts, providing and fixing busbar insulaotrs, sleeveing, nut-bolts in existing panel/box for connections etc. as required complete.				
a)	50.0 mm X 6.0 mm	10.00	Mtr.		
6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required				
a)	1 x 1.5 sq. mm	37.60	Mtr.		
b)	3 x 16 sq. mm	10.00	Mtr.		
7	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.				
a)	3½ X 400 sq. mm (82mm)	2.00	Nos.		
8	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 185 sqmm upto 400 sqmm size in the following as required.				
a)	direct in ground	40.00	Mtr.		
b)	in open duct	20.00	Mtr.		
9	Supplying, fixing, connecting and commissioning ON & OFF push button unit ABB make or its equivalent approved make. as required complete.	10.00	Nos		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
10	S&F, copper lug /reducer terminals/ inline connector terminals suitable for following size of conductor.				
a)	16 sq.mm.	142.00	Nos.		
	<b>Total Rs. (Part-A + Part B)</b>				