

Bill of Material for Upgradation / Renovation of existing 11 KV Sub Station

Sl. No.	Item Description	Unit	Rate (In Rs.)
A	Installation, testing and commissioning of following 11/0.4 KV 3 phase Distribution Transformer on the existing Double Pole Structure including strengthening of the existing DP structure as per site condition, dismantling / removal of old Distribution Transformer, loading & unloading and transportation including insurance of old Distribution Transformer to designated store of Purchaser or other location, fixing of Anti climbing device (Barbed wire), Danger Plate in Substation Structure. The scope also includes termination of 11 KV line, replacement of damaged jumpering of substation as per relevant standard installation of all clamps, connectors, lugs / sockets, binding wire, and providing insulating tape and any other consumables.		
	25 KVA to 63 KVA	No.	
	63 KVA to 100 KVA	No.	
B	Installation, testing and commissioning of following 11/0.4 KV 3 phase Distribution Transformer on the existing Plinth including strengthening of the plinth with brick/stone masonry and plastering as per site condition, dismantling / removal of old Distribution Transformer, loading & unloading and transportation including insurance of old Distribution Transformer to designated store of Purchaser or other location, fixing of Anti climbing device (Barbed wire), Danger Plate in Substation Structure. The scope also includes termination of 11 KV line, replacement of damaged jumpering of substation as per relevant standard installation of all clamps, connectors, lugs / sockets, binding wire, and providing insulating tape and any other consumables.		
a	250 KVA to 315 KVA	No.	
b	250 KVA to 500 KVA	No.	
C	Installation, Testing and commissioning of following items on existing DP including dismantling / removal of old equipments loading & unloading and transportation including insurance there of at designated store of Purchaser or other location.		
1	PSC Pole (9 Mtr x 300 Kg)	No.	
2	AB Switch (Horizontal)		
a	200 Amp 3 Pole	No.	
b	400 Amp 3 Pole	No.	
3	HG Fuse		
a	200 Amp 3 Pole	No.	
b	400 Amp 3 Pole	No.	
4	GI Flat		
a	25 x 6mm	Kg.	
b	25 x 4mm	Kg.	
5	Earthing Electrode complete including chamber.	No.	
6	Fabrication, weilding & Installation of Structrul steel and applying a B41	Kg.	

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7	HT Stay Set Complete	No.	
8	Insulator		
a	Disk Insulator with Hard Ware	No.	
b	Pin Insulator with GI Pin	No.	
9	LT Distribution Box with MCCB including foundation		
a	Suitable for 25 KVA transformer	No.	
b	Suitable for 63 KVA transformer	No.	
c	Suitable for 100 KVA transformer	No.	
d	Suitable for 250 KVA transformer	No.	
e	Suitable for 315 KVA transformer	No.	
10	LT XLPE Cable		
a	1C x 35 mm ² (Unarmoured)	Mtr.	
b	1C x 70 mm ² (Unarmoured)	Mtr.	
c	1C x 95 mm ² (Armoured)	Mtr.	
d	1C x 185 mm ² (Armoured) - 2 Run	Mtr.	
e	1C x 300 mm ² (Armoured)	Mtr.	
f	1C x 300 mm ² (Armoured) - 2 Run	Mtr.	
11	11 KV Lighting Arrestor	No.	
D	Construction of Plinth for mounting of Transformer (250/315 KVA). The dimension of the plinth shall be 1200 x 600 mm. The height of the plint shall be 1500 mm above the Ground Level. Plinth wall shall be brick/stone masonry of 230 mm thick. Outside of the wall to be plastered with 18 mm thick cement mortar (1:3). Inside of the plint shall be filled with borrowed sand duly compacted. R.C.C. top slab (1:2:4) shall be 75 mm thick.	Lot.	
E	Construction of 1.5 m high Barbed Wire Fencing, supply and erection of PCC Post of size 3" x 3" at top and 5" x 5" at bottom 2.0m high, 2.0 m c/c imbeded in 1:3:6 concrete (20 mm nominal size of aggregate) block 450x450x600 mm. Corner post shall be struted on both sides and end post shall be struted on one side only as per TS.	Run. Mtr	
F	Construction of 230 mm thick brick masonry, 1.5 m high Boundary Wall (from GL). The wall shall be plastered, both inside and outside with 18 mm thick cement mortar (1:4 mix). The Boundary Wall shall be painted with two coats of white wash with lime.	Run. Mtr	
G	Supply and Installation of Double Leaf MS Gate of height 1.5 m height x 1.5 m width, made up of 30x30x6 angle and 25x6 Flat as per approved Drawing. Gate is to be supported on concrete column size 300x300x2000 m. The gate shall be painted with two coat of approved primer with two coats of approved epoxy paint.	Kg.	
H	Gravel Spreading	Sq.M	
I	Filling of Borrowed Earth	Cum	
J	Filling of Borrowed Sand & Morrum	Cum	