

Annexure - I

Estimate for procurement Post Insulator for LV side of Both 20 MVA ,132/33 KV Xer 1 and Xer 2 at
132 KV Grid S/S,MePTCL,Mustem.

SN	Description of materials	Unit	Qty	Rate	Amount	Remarks
1	36 KV,1 Phase Bus Post Insulators	Nos	6			
2	1 Phase Bus Post Insulators Structure	Set	6			
	Total					
	GST @ 18 %					
	Grand Total					

Annexure - II

Estimate for Construction of Foundation and Erection 6 nos.of 33KV PI for LV side of 5 MVA ,132/33 KV Xer 1 and Xer 2 at 132 KV Grid S/S,MePTCL,Mustem.

Sl No	Unit	Quantity		Sets	Particulars	Rate	Amount
1	M ³	10.94		2	Item No2.1: Earthwork in excavation upto a depth of 2m below the existing ground level for foundation trenches of foundations, footings of column/walls, retaining walls, septic tank etc. including bailing out water where necessary and removal of surplus earth with all lead and lifts as directed and specified for the following classificaiton of soils. In ordinary rock (soft rock/ medium rock/ hard shale)		
2	m ²	5.47		2	Item No.12.5 (b) Providing brick soling in foundation and under floor with stone/best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete Stone soling of thickness 100 mm		
3	M ³	0.55		2	Item No 5.1 (a): Plain cement concrete works with course aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately). in prop 1:4:8(1 cement : 4 coarse sand : 8 course aggregate by volume (using mixture machine)		

4	Qntl	<p>Footing 10mm</p> <p>Column 12mm</p> <p>stirup</p> <p>Total=1.084</p>	2	<p>Item No 6.11: Supplying, fitting and fixing in position reinforcement bars up to 1st floor level, conforming to relevant I.S. Code for Ft.C.C.work/ a.a. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lapping, hooks, chairs, anchorage etc. and no measurement for the same is required)</p> <p>(a) Mild steel and Medium Tensile steel bars</p>	
5	m ²	14.43	2	<p>Item No . 4.10: Centering and shuttering including strutting, propping etc. and removal of form for all heights complete and as directed by Engineer in charge.</p> <p>Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards (using timber).</p>	
6	m ³	<p>Footing</p> <p>column</p> <p>Total=3.71</p>	2	<p>Item No 6.1. Providing and laying in position specified grade of reinforced cement concrete, excluding the cost Of centering, shuttering, finishing and reinforcement- All work up to plinth level:</p> <p>(a) M15 or Prop. 1 :2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)</p>	

7	m ³	6.51		2	Item 2.6 (a): Earthwork in filling (excluding rock) in trenches, plinth, sides of foundation etc in layers not exceeding 20 cm thick including breaking Of clods, consolidating each layer by ramming and watering, lead up to 50 in and lift up to 1.5 in . (a)With available excavated earth		
8	m ²	14.43		2	Item No. 15.10 : Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat Of neat cement 15 mm cement plaster		
9	m ²	14.43		2	Item No 16.4 : White washing with lime to give an even shade: a)New work (three or more coats)		
10	km-m ³	Carriage of stone aggregate =86.80		2	Extra for carriage including loading and unloading and all charges complete beyond the initial lead of 5 Km (Myntdu river to Mustem substation, 25KM=25-5=20KM extra lead		
11		Carriage of sand =566		2	Extra for carriage including loading and unloading and all charges complete beyond the initial lead of 5 Km (Myntdu river to Mustem substation, 25KM=25-5=20KM extra lead		
12	Set	Erection of 1 Sets (per 3nos)PI		2	Transportation & Erection of terminal		
GST on Erection@18%							
Grand Total							

Abstract of estimate for construction of foundation and erection of 6 Nos of 33 KV Post Insulator for LV side of Xer 1 & Xer 2 at Mustem Substation

SN	Item	Amount (Rs)	Remarks
1	Estimate for Construction of Foundation and Erection 6 nos.of 33KV PI for LV side of 5 MVA ,132/33 KV Xer 1 and Xer 2 .		
Total (Rs)=			