

<p align="center"><b>BHEL::HYDERABAD</b>  <b>M&amp;S (P&amp;C) DEPARTMENT</b>  <b>TENDER No.M&amp;S/P&amp;C/2019/17 DT.08/05/2019</b>  <b>NAME OF WORK: ELECTRICAL WORKS FOR UPGRADATION OF 52 BUILDING SUBSTATION</b></p>					
PRICE BID					
S.No	Work Description	Unit	quantity	rate/unit	amount
1	Unpacking and disassembly of VCBs for shifting inside the substation. The job includes removal of packing, removing covers, disconnecting interconnecting busbars and removal of VCB trucks	Nos	15.00	1,252.00	₹ 18,780.00
2	Shifting, Assembly, Erection, Testing and Commissioning of 6.6KV, VM-12 , BHEL make, Indoor type stand-alone VCBs. The VCBs shall be erected on the trenches by providing MS material. The job includes primary injection, secondary injection and testing of relays mounted on VCB panels. Approx. Size: 820(L) x 2355(W) x 2700(H) mm and Wt: 1500kgs each.	Nos	2.00	7,700.00	₹ 15,400.00
3	Shifting, Assembly, Erection, Testing and Commissioning of 11KV, VM-12 , BHEL make, Indoor type VCBs. The VCBs shall be erected on the trenches by providing MS material. The job includes primary injection, secondary injection and testing of relays mounted on VCB panels. Approx. Size: 820(L) x 2355(W) x 2700(H) mm and Wt: 1500kgs each.	Nos	13.00	7,700.00	₹ 100,100.00
4	Removal/disconnection of existing cables, dismantling, shifting to Scrap Yard or handing over of the following items to Power distribution or following the instructions of the Site Engineer				
	a) 11kv, BVP-4/BVP-3 MOCB. Approximate Dimensions: 600mm(L)X1400mm(W)X2500mm(H). Approx. Weight: 1 Ton	Nos	13.00	2,191.65	₹ 28,491.45
	b) 6.6kv, BVP-4/BVP-3 MOCB. Approximate Dimensions: 600mm(L)X1400mm(W)X2500mm(H). Approx. Weight: 1 Ton	Nos	1.00	2,191.65	₹ 2,191.65
5	Shifting and laying of the following HT power cables (UE). The job includes Dressing & Tagging, Fixing of free issued trefoil clamps for Single Core cable at 1mt interval etc.				
	a) 1C X 630 sq.mm, 11KV (UE) aluminum armoured cable	Mts	300.00	37.50	₹ 11,250.00

	b) 3C X 95 sq.mm, 11KV (UE) aluminum armoured cable	Mts	380.00	37.50	₹ 14,250.00
	c) 3C X 300 sq.mm, 6.6KV (UE), aluminum armoured cable'	Mts	300.00	37.50	₹ 11,250.00
	Supply of the end termination kits for the following cables. <b>Make: Raychem/3M</b>				₹ 0.00
	<b>6.6KV (UE) Cables</b>				
	a) 1C X 630 sq.mm XLPE aluminum armoured cable	Nos	3.00	1,850.00	₹ 5,550.00
	b) 3C X 300 sq.mm XLPE aluminum, armoured cable	Nos	2.00	4,324.32	₹ 8,648.64
6	c) 3C X 120 sq.mm, 6.6KV (UE), PILC cable	Nos	2.00	10,340.80	₹ 20,681.60
	<b>11KV (UE) Cables</b>				
	d) 1C X 630 sq.mm XLPE aluminum armoured cable	Nos	6.00	1,850.00	₹ 11,100.00
	e) 1C X 500 sq.mm XLPE aluminum armoured cables	Nos	6.00	5,442.05	₹ 32,652.30
	f) 3C X 95 sq.mm XLPE aluminum armoured cable	Nos	16.00	10,916.80	₹ 174,668.80
7	Supply and execution of straight through joints for 3C X 120 sq.mm, 6.6KV (UE), PILC aluminum cable	Nos	2.00	23,546.00	₹ 47,092.00
	Execution of end joints and reconnection of the following cables in the VCBs. The job includes making holes of sufficient size in the gland plates, adjusting the cables in the trench and providing mechanical support for the cables, sealing of cable entries with wall putty, tagging of cables				
	<b>6.6KV Cables</b>				
8	a) 1C X 630 sq.mm XLPE aluminum armoured cable	Nos	3.00	1,531.00	₹ 4,593.00
	b) 3C X 300 sq.mm XLPE aluminum, armoured cable	Nos	2.00	2,017.00	₹ 4,034.00
	c) 3C X 120 sq.mm, 6.6KV (UE), PILC cable	Nos	2.00	2,017.00	₹ 4,034.00
	<b>11KV Cables</b>				
	c) 1C X 630 sq.mm XLPE aluminum armoured cable	Nos	6.00	1,531.00	₹ 9,186.00
	d) 1C X 500 sq.mm XLPE aluminum armoured cables	Nos	6.00	1,531.00	₹ 9,186.00
	e) 3C X 95 sq.mm XLPE aluminum armoured cable	Nos	16.00	1,531.00	₹ 24,496.00

9	Supply and Erection of Earth pits for Equipment body earthing with 65mm dia GI pipe Medium (class-B), strictly as per IS: 3043, 3000mm long with holes of 12mm dia at 150mm apart at random & 50x6x260mm MS Earthing plate welded to pipe as per drawing. The work includes supply of material for alternate layers of charcoal(75kgs), salt(150kgs) and making RCC/brick chambers with MS/cast iron cover. Contractor shall dig 300mm depth and 200mm width trench in the soil for laying the earth flat from earth pit electrode to earth mat/equipment.	Nos	6.00	7,350.00	₹ 44,100.00
10	Shifting, Fabrication and Erection of structural steel for equipment/cable tray support	Tons	1.00	9,066.00	₹ 9,066.00
11	Shifting & Earthing of Equipment from nearest Earth riser with 50x6mm/ 25x3mm GI flat	Mts	200.00	22.00	₹ 4,400.00
12	Shifting & Erection of cable tray upto 600mm width of ladder / perforated type. The job includes fabrication of cable tray bends wherever required.	Mts	300.00	42.85	₹ 12,855.00
13	Shifting and laying of the following LT cable				
	a) 3C/4C X 2.5 sq.mm Copper armored cable	Mts	100.00	12.00	₹ 1,200.00
	b) 12C X 1.5 sq.mm Copper armoured cable	Mts	300.00	12.00	₹ 3,600.00
14	Termination of the following LT cable. Copper/Aluminum lug, double compression glands are in the scope of contractor				
	a) 3C/4C X 2.5 sq.mm Copper armored cable	Nos	4.00	268.28	₹ 1,073.12
	b) 12C X 1.5 sq.mm Copper armoured cable	Nos	10.00	547.16	₹ 5,471.60
15	Identification of old cables, disconnection from equipment, drawing out from trench and shifting to scrapyards/as per the instructions of site engineer	Mts	300.00	16.29	₹ 4,887.00
				<b>TOTAL</b>	<b>₹ 644,288.16</b>
	<b>GST EXTRA AS APPLICABLE</b>				
	<b>Note:- Vendors are required to quote their tender value on percentage (%) basis at any one of (a) excess or (b) less or (c) on par with total estimated value.</b>				
	Tender %		in Figures	In Words	
	Excess				
	Less				
	Estimate Rate only				