

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD
MAINTANANCE & SERVICES DIVISION
PRICE BID FORMAT - 6C

NAME OF WORK : **Electrical Works for Repair of HT & LT cables in 09 Block**
Tender Notice : **M&S/P&C/2022/79, dt. 10.02.2022**

S.No.	Description of Work	Qty.	Unit	Rate per unit (in Rs.)	Amount (in Rs.)
1	Dismantling of existing RM board. The scope of work includes, but not limited to: a) Removal of covers, b) Disconnection of all the power and control cables c) Removal of earth connection d) Dismantling and removal from existing location e) Shifting of the RM Board to scrap yard or suitable location as per the instruction of site engineer	1	Nos	3,344.00	3344.00
2	Shifting, erection, assembly, testing and commissioning of LT PCC Panel for the Oxygen Plant. The approximate dimensions of the panel are: 3150mm X 2400mm X 940 mm. Approx. Weight: 2850 Kgs.	1	Nos	5,384.00	5384.00
3	Shifting, laying and dressing of the following cables				
	a) 3.5C X 240 sq.mm LT PVC Aluminium armoured cable	1440	Mts	40.00	57600.00
	b) 3.5C X 300 sq.mm LT PVC Aluminium armoured cable	90	Mts	46.00	4140.00
	c) 1C X 300 sq.mm EPR Insulated flexible copper cable	60	Mts	31.00	1860.00
	d) 3.5C X 400 sq.mm, 1.1kV, HR PVC Aluminum armored cable	70.00	Mtrs	46.00	3220.00
4	Termination of the following cables. The scope of work includes supply of double compression glands of brass/Nickel for aluminium cables, polyamide glands for flexible cables and cable lugs of suitable size, executing the terminations and connecting the terminated cable in the terminals. No gland is required for PILC cable				
	a) 3.5C X 400 sq.mm LT PVC Armoured Aluminium cable	2	Nos	3,689.00	7378.00
	b) 3.5C X 240 sq.mm, 1.1KV, LT PVC armoured aluminium cable	14	Nos	2,233.00	31262.00
	c) 3.5C X 300 sq.mm, 1.1KV LT PVC Cable Sq.mm, PVC	7	Nos	2,571.00	17997.00
	d) 1C X 300 sq.mm Copper Cable	6	Nos	727.00	4362.00
	e) 3.5C X 50 sq.mm 1.1KV LT PVC Cable	1	Nos	378.00	378.00
	f) 3CX240 Sq.mm PILC Cable	12	Nos	529.00	6348.00
5	Excavation of cable trench(500x600mm)				
	i) In soil, excavation of 900mm deep and 500mm width trench, supply & spreading of sand, supply & laying of bricks & shabad stone as per IS:1255 1983 and back filling after cable laid with marking plates.	220	Mts	516.00	113520.00
	ii) Cutting of Road, RCC & Hard rock	25	Mts	417.00	10425.00
	iii) Supply & laying of 9" dia 2 M long RCC hume pipes at Road and Railway track crossings.	12	Mts	865.00	10380.00
6	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge	3	m ³	5,427.00	16281.00
7	Shifting and Laying 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.	50	Nos	3,862.00	193100.00
8	Supply of HT Straight through joints for 1C X 500 sq.mm, 11kV (UE), armored XLPE Aluminum cable, Make: Raychem/3M	4	Nos	32,787.00	131148.00
9	Supply of LT Straight through joints for 3.5C X 400 sq.mm, Make: Raychem/3M	6	Nos	7,508.00	45048.00

	Execution of the straight through joints for the following cables. All the required tools are in the scope of contractor				
10	a) 1C X 500 sq.mm, 11kV (UE), armored XLPE Aluminum cable	4	Nos	2,040.00	8160.00
	b) 3.5C X 400 sq.mm, 1.1kV, HR PVC Aluminum armored cable	6	Nos	2,040.00	12240.00
	c) 3C X 95 sq.mm, 11KV (UE), armoured XLPE aluminium cable	1	Nos	2,692.00	2692.00
	Shifting and Laying of the following cables.				
11	a) 1C X 500 sq.mm, 11kV(UE), armored XLPE Aluminum cable	50.00	Mtrs	31.00	1550.00
	b) 3C X 95 sq.mm, 11KV (UE), armoured XLPE aluminium cable	50.00	Mtrs	40.00	2000.00
12	Shifting & Earthing of Equipment from nearest Earth riser with 50x6mm/ 25x3mm GI flat. Work includes supplying and applying Aluminium/Silver paint at each welding points.	150.00	Mts	40.00	6000.00
13	Shifting, Fabrication and Erection of structural steel for equipment/cable tray support etc.including 2 coats of red oxide painting. Supply of red oxide paint & Welding rods are in the scope of contractor.	1.00	Ton	9,746.00	9746.00
	Removal 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				
14	a) 1000KVA, 11kV/415V Oil filled distribution transformer. Approximate Size: 2500mm (L)X 1500mm(B) X 2500mm (H). Total weight: 5000 Kgs	1.00	Nos	11,163.00	11163.00
	b) 415V LT ACB panel of size: 4150mm X 1000mm X 2300mm. Approx. weight: 3000Kgs	1.00	Nos	6,013.00	6013.00
15	Identification & Removal of existing HT and LT power cables from trench between each substaton and individual RM Boards which are fed power supply from T4 substaion and shifting them to scrap yard after checking.	430.00	mts	20.00	8600.00
16	Shifting, Assembly, Erection, Testing & Commissioning of free issued CSS LT Extension panel of size 2060mm (L) X 575mm (B) X 1900mm (H) inside T3 Substation. Feeder combination of panel: Incoming - 2000A ACB(2 nos), Outgoing - 630A MCCB (6 nos). Approximate Weight: 500 Kgs	1.00	Nos	5,384.00	5384.00
17	Shifting, execution of end termination and termination of 3C X 95 sq.mm, 11KV (UE), Aluminium armoured XLPE insulated cable inside CSS. The job includes, but not limited to, adjusting of cable for sufficient length, bringing the cable inside the CSS, preparation of cable for end termination, execution of end termination.	1.00	Nos	1,277.00	1277.00
Total Amount: Seven Lakhs Thirty Eight Thousand					7,38,000
GST will be Extra as applicable.					

Note:- The 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 amount.			
SNO	Description	Tender % (in Figures)	Tender % (in words)
(a)	Excess		
(b)	Less		
(c)	Estimate Rate only		

Signature and Seal of the Contractor