

BHEL::HYDERABAD			
M&S-(P&C) DEPARTMENT			
TENDER REF.M&S/P&C/2019/95A DT.19/03/2020			
NAME OF THE WORK:" MAINTENANCE OF FACTORY ROAD LIGHTING and BAY LIGHTING"			
SCOPE OF WORK			
S.NO	DESCRIPTION OF ITEM	unit	QTY
	ROAD LIGHTING		
1	Replacement of MCBs of all capacities	each	120
2	Checking of the healthiness of the various Road lighting circuits in the factory	each	200
3	replacement of 2.5sqmm AL/cu cable	Meter	75
4	Dismantling,Transporting of old light fittings including brackets and clamps to the maintenance workshop of 15/83 bldg for rectification/reconditioning.	each	200
5	Fixing of new/reconditioned street/yard light fittings of any type on any of the poles as directed with brackets and clamps.	each	200
6	Excavation of cable trenches of size 0.5 M width and 0.5 M depth. in all soils except hard soil/road cutting	Meter	750
7	Refilling of excavated trench with excavated solid ramming wit and levelling etc.,	Meter	750
8	excavation of hard soil, Rock 0.5m x 0.5m	Meter	150
9	Refilling of cut road/floor with excavated materials and wait for settling of the soil for one week.The same area shall be covered with suitable metal of size 50/25/10mm and cement/bituminous compound for free movement of vehicles.	Meter	150
10	Supply and spreading of sand 50mm thick all round the cable and laying of bricks around the cables ie., two sides and laying of 1ft X 1ft shabad stones on top over the cable.	Meter	750
11	Supply and Laying of 6" dia RCC pipes including coller pipes in Road/Floor cutting	Meter	150
12 (a)	Laying of 16/25/35/50 Sq.mm 3/4 core PVC insulated sheathed steel armoured Al/Cu conductor cable and fixing of cable markers on the cable route. (Cable&Cable markers will be on BHEL's free issue).	meter	1000
(b)	Execution of end joints for item 3(a)	each	50
(c)	Execution of straight through joints for item 3(a)	each	15
13	Earth excavation (for poles/stays/struts) for pits of size 0.6x0.9x1.5 mtrs in all soils.	each	10
14	Bending and fixing of GI pipe brackets for extending the length of existng street light brackets/New fittings. (GI pipe BHEL's free issue)	each	30
15	Fixing of new PD box with Clamps, nuts, bolts and necessary accessories. (PD box will be BHEL's free issue)	each	40
16	Cleaning of existing PD boxes with wire brush and supply & painting of one coat of Redoxide and two coats of SE paint for complete PD box including clamps.	each	140
17	Replacement of accessories in PD box, such as fuse unit,connector strip (fuse unit and connector strip , and crimping lugs are in the contractor scope)	each	425
18	Repair/Replacement of main contactors like ML2 to ML8 of L&T make.	each	15
19	Repair/Replacement of 15/30/60/100 ICTP switches.	each	25
20	Periodical checking and repair of the internal wiring of Security Watch towers.	each	10
21	Periodical checking and repair of the internal wiring of HS towers Includes repair of the internal wiring, ropes, Winch & Motor operation, contactors, timers, MCBs of High towers	each	4
22	Periodical checking and repair of the internal wiring of High mast Includes repair of the internal wiring, ropes, Winch & Motor operation, contactors, timers, MCBs of High Mast	each	2

23	Arrangement of temporary flood lighting for Emergencies/VVIP's Visit/Special requirement. This includes shifting of material, laying of Cables, fixing of flood lights and switches. After completion of work these are to be dismantled and shifting to stores.	each	10
24	Supply and erection of 8 Mtrs length Prestressed Cement Concrete Poles as per IS:1343 and IS:1678-1978. The poles shall withstand the working load of 200 Kgs acting at 0.6 Mtr from top of the poles. Poles with hairline cracks will be rejected. The poles shall have good finishing and strength.	each	10
25	Fabricating and fixing of MS clamps of 20x3mm, 25x6mm sizes as per requirement. Clamps shall be painted with 1 coat of Redoxide and two coats of aluminium paint. (Including necessary bolts, nuts and washers etc.,)	each	60
26	Poles colouring with white snowcem paint (Snowcem paint is in the scope of contractor)	each	140
27	Painting of serial numbers on RCC poles with black background and lettering with white enamel paint.	each	140
BAY LIGHTING			
1	Replacement and changing of LED Roof Light - Dismantling the existing fitting and erection of the new LED fitting. Shifting of Bay light from the store also covered in this item	each	100
2	checking and replacement of spare parts of MV/SV/MH 240 Volts 400W/250W/125W fittings		
a)	Lamps	each	100
b)	Ballast/Choke	each	50
c)	Ignitors	each	50
d)	Capacitors	each	50
e)	Lamp Holders & any other issues for functioning of complete set like wiring inside the fittings etc	each	30
f)	Replacement of fitting assembly in place of defective one	each	10
3	Cleaning of reflectors with kerosene or thinner and replacement of wingnut, screw if necessary	each	1000
4	laying of single core 6 sq mm aluminium conductor PVC insulated & sheated cable in place of damaged wire in open wiring - cable will be supplied by BHEL	meter	1000
5	Replacement of 2/4/6/15 Amps MCBS/MMCBs 250 Volts in place of defection MCBs	each	100
6	Replacement of combination boxes - fuse switches on ML oeads of 100 Amps or 63 Amps	each	20
7	Repair and replacement of existing tubelight fittings of twin/single 28W, 4'/36W, 4"/40 W 5" in the office with BHEL given Lamps, chokes, starters, holders etc		
a)	Replacement of TubeLight Lamps	each	100
b)	Replacement of Tubelight Chokes	each	50
c)	Replacement of Tubelight starter and reflector	each	50
d)	replacement of tubelight holders and wiring	each	50
e)	Replacement of complete tubelight fittings	each	50
8	Repair and replacement of fuse holders	each	50
9	Replacement of MCB distribution board	each	15
10	Laying & termination of Al armoured cables in shops of 25/35 sqmm	meter	200
11	Checking of wiring circuits	each	100
12	Earthing points rectification but not earth pits	each	25