

**BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-32
MAINTENANCE & SERVICES DIVISION
FORMAT 6-C
TENDER DOCUMENT (PRICE BID)**

NAME OF WORK : Maintenance of Road Lighting, Security watch and High Towers.

Tender Notice : M&S/P&C/2015/61 Date: 30.11.2015

S.NO	DESCRIPTION OF ITEM	QTY	Rate for each	Amount
1	Periodical maintenance of the Road/Yard lighting. This includes:			
(a)	Cleaning of all items of fittings like fitting body, reflector, glass dome free of dust and insects, refixing of glass dome/covers, wherever required. (periodicity shall be once in two months)	425	37.70	16020.38
(b)	Checking and rectifying of connections to starters, choke fuse units, capacitors, any loose contacts to lines, jumpers etc., tightening of binding wire wherever required and refixing of the above accessories if required.	425	37.70	16020.38
2	Replacement of blown off fuses on individual fittings of the types referred in item(1).	250	61.26	15314.25
3	Replacement of burnt out/wornout standard accessories of the following types:		0.00	
(a)	Lamp holders	300	37.70	11308.50
(b)	Chokes/Ballasts	175	37.70	6596.63
(c)	Condensers	200	37.70	7539.00
(d)	Ignitors	175	37.70	6596.63
(e)	MCBs of various capacities	120	37.70	4523.40
(f)	Bulbs/Tubes of all types used in the fittings	500	37.70	18847.50
(g)	Replacement of 2.5 sqmm PVC Al/Cu cable of 9 Mtrs each including connections at both sides..	75	28.28	2120.74
	(items for "a to g" are BHEL's free issue)		0.00	
4	Dismantling,Transporting of old light fittings including brackets and clamps to the maintenance workshop of 15/83 bldg for rectification/reconditioning.	200	61.26	12251.40
5 (a)	Fixing of new/reconditioned street/yard light fittings of any type on any of the poles as directed with brackets and clamps.	150	51.84	7775.78
(b)	Fixing of new/reconditioned Car/Scooter shed light fittings of any type with brackets and clamps.	50	51.84	2591.93

(Signature & Stamp of Tenderer)

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S.NO	DESCRIPTION OF ITEM	QTY	Rate for each	Amount
6	Excavation of cable trenches of size 0.5 M width and 0.5 M depth.			
a)	in all soils except hard soil/road cutting	750	61.26	45942.75
b)	Hard soil/cutting of roads/flooring.	150	150.80	22620.15
c)	Pits of 0.5 M radius and 0.5 M depth for cable loop at each pole.	50	56.55	2827.65
7 (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).	1000	12.25	12253.50
(b)	Execution of end joints for item 7(a)	50	28.28	1413.83
(c)	Execution of straight through joints for item 7(a)	15	150.80	2262.02
8(a)	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 for item No. 6(a).	750	150.80	113100.75
(b)	Supply and Laying of 6" dia RCC pipes including coller pipes in Road/Floor cutting for item 6(b).	150	245.05	36757.35
9 (a)	Refilling of excavated trench with excavated solid ramming wit and levelling etc., complete for item 6(a).	750	12.25	9190.13
(b)	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 for item 6(b).	150	28.28	4241.48
(c)	Refilling of Cable loop pits for item 6(c)	50	56.55	2827.65
10	Earth excavation (for poles/stays/struts) for pits of size 0.6x0.9x1.5 mtrs in all soils.	10	245.05	2450.49
11	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.	10	3581.42	35814.24
12	Bending and fixing of GI pipe brackets for extending the length of existng street light brackets/New fittings. (GI pipe BHEL's free issue)	30	56.55	1696.59

(Signature & Stamp of Tenderer)

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S.NO	DESCRIPTION OF ITEM	QTY	Rate for each	Amount
13	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.,)	60	113.10	6785.73
14	Fixing of new PD box with Clamps, nuts, bolts and necessary accessories. (PD box will be BHEL's free issue)	40	75.40	3016.02
15	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.	140	103.68	14514.78
16	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)	425	28.28	12017.51
17	Poles colouring with white snowcem paint (Snowcem paint is in the scope of contractor)	140	103.68	14514.78
18	Painting of serial numbers on RCC poles with black background and lettering with white enamel paint.	140	56.55	7917.42
19	Repair/Replacement of lighting sensors.	15	103.68	1555.16
20	Repair/Replacement of main contactors like ML2 to ML8 of L&T make.	15	103.68	1555.16
21	Repair & Replacement of 15/30/60/100 Amps ICTP switches.	25	103.68	2591.93
22	Periodical checking and repair of the internal wiring of Security Watch towers.	10	1130.98	11309.76
23	Periodical checking and repair of the internal wiring of High Security towers.	4	1696.46	6785.86
24	Periodical checking and repair of the internal wiring, ropes, Winch & Motor operation, contactors, timers, MCBs of High Mast towers once in two months.	2	2120.58	4241.16
25	Supply&Fabrication including painting with SE paint and installation of control gear box (rain proof MS box) for sensor, contactor, fuses for auto/manual provision including wiring and connections. (Contactor, sensor and fuse units will be BHEL free issue).	6	1696.46	10178.78

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S.NO	DESCRIPTION OF ITEM	QTY	Rate for each	Amount
26	Checking, maintenance and cleaning of Solar street lighting system including PV Modules, luminaire, Batteries, Battery Box and replcement of spares. The solar street lights are to be cleaned once in a month. (Spares are BHEL's free issue)	125	226.19	28273.88
27	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 dismantelled and shifting to stores.	10	320.75	3207.54
			Total Amount Rs	549370.50

Note:- The tenderers are required to quote their tender value on %age basis at excess or less or on par with estimated value.

Tender (%)	in figures	in words
Excess		
Less		
Estimate rate only		

Conditions :

1	The rate quoted by the contractor shall be inclusive of all taxes (except service tax) and duties levied by Central/State Govt. organizations as well as local authorities, as applicable from time to time.
2	Service tax will be extra if applicable for this contract. Service Tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor.
3	The contractor if asked by the contract executing officer should produce proper documents (i.e., cash bills/invoices/delivery challans etc. in original) in support of purchase of materials, whichever is in the scope of the contractor as mentioned in the schedule of the contract.

(Signature & Stamp of Tenderer)

::4::