

BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM :: HYDERABAD-32

MAINTENANCE & SERVICES DIVISION

FORMAT 6-C

TENDER DOCUMENT (PRICE BID)

NAME OF WORK : Installation and Commissioning of two High mast Lights and electrical works for four security watch towers.

Tender Notice : M&S/P&C/2015/67 Date: 23.11.2015

S.No	Description of work	QTY	Unit	Rate for each	Amount
1	Excavation of cable trenches of size 0.5m width and 0.6m depth.				
(a)	In soil, excavation of 600mm 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.	959	Mts	281.26	269728.34
(b)	Cutting of Road, RCC/ Hard Rock	23	Mts	356.70	8204.1
(c)	Supply and laying of 9" dia 2M long RCC hume pipes including coller pipes in Road/Floor cutting for item 1(b)	13	Nos	624.84	8122.92
2 (a)	Shifting, Laying and Dressing of 25/50 sq. mm. 4 core PVC insulated sheathed steel armoured Al/Cu conductor cable	1404	mtrs	14	19656
(b)	Shifting, Laying and Dressing of 4C x 2.5 sq. mm. CU conductor cable	225	mtrs	11	2475
(c)	Termination of 25/50 sq. mm. 4 core PVC insulated sheathed steel armoured Al/Cu conductor cable. Copper/Aluminium lugs and other items in the scope of the contractor.	12	sets	310	3720
(d)	Termination of 25/50 sq. mm. 4C x 2.5 sq. mm. Cu conductor cable. Copper/Aluminium lugs and other items in the scope of the contractor.	4	sets	207	828
e	Supply and Execution of straight through joints for item 2(a)	2	sets	1250	2500
3	Shifting, Assembly, Erection and commissioning of 16 Mt height polygonal high mast lighting system with 8 nos. 400W HPSV luminaires. The luminaires are to be fixed on 710mm dia carriage. The highmast is in two sections of top 8250 mm and bottom 8250 mm length. The luminaire carriage is operating double drum winch with 2HP integral motor, 5Cx4sq. mm. trailing copper cable and stainless steel wire rope, control panel etc.	2	sets	28451	56902

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4	Installation, erection and commissioning of feeder pillar panel to accommodate timers and switches as required for high mast light control and suitable civil foundation includes supply of cement, sand ,concrete etc in supplier scope	2	sets	2500	5000
5	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(75kg) and salt (150kg) and making RCC/brick chambers with MS/cast iron cover.Contractors shall dig 300mm depth and 200mm width trench in the soil for laying the earth flat from earth mat/equipment.	8	sets	6293.28	50346.24
6	Shifting and earthing of equipment for nearest earth riser with 50x6mm/25x3mm GI flat. Work includes supply and apply of aluminium paint at each welding point.	160	mtrs	20.16	3225.6
7	Shifting,erection and commissioning of 3phase distribution board(FDB) as per site engineers instruction a) 32A	10	sets	2026.92	20269.2
8	Supply and fixing of 10 Amps,250v, SP switches for control of light fitting and fans with Roma Type code:21011 of anchor or Northwest make.fixed on a suitable modular type concealed box with suitable top cover,testing & commissioning.	12	sets	236.88	2842.56
9	Supply and fixing of 3pin, 250V, 10Amps power socket cum switch with indication Roma type code 21113 and 21033 of Anchor make or North West. Fixed on suitable modular type concealed box top cover, testing & commissioning.	4	sets	365.4	1461.6
10	Supply and execute the concealed/ surface PVC/MS pipe wiring with 1.5 sq.mm 660V/1100V grade PVC insulated copper wire . Multistrand of make Finolex/Radiant/Fincab/Havells/L&T.In PVC pipe of suitable dia (as per IS of wiring points) with 14 g/1.5 sq.mm green colour copper wire for earth continuity.each light/fan point should be connected to 3 plate ceiling rose code 30090 of Roma/modular type of Anchor/north west make/connector suspended duly with conduit/PVC pipe etc.	16	pts	976.08	15617.28

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11	Shifting, Assembly, Erection, testing and commissioning of 2x36W different types of tube light fittings. The light fitting shall be fixed with suitable down rod, ball and socket etc and the supply of the above material is in the contractor's scope. The job includes supply of 1.5 sq.mm copper wire for connection between ceiling rose and TL. (Light fitting is free issue by BHEL)	4	sets	495.6	1982.4
12	Shifting, Assembly, Erection, testing and commissioning of ceiling fan along with free issued electronic regulator. The job includes supply of 1.5 sq.mm copper wire for connection between ceiling rose and fan. (ceiling fan is free issue by BHEL)	4	sets	325.92	1303.68
13	Shifting, Assembly, Erection, testing and commissioning of BHEL free issued periphery light luminaire with POT optics reflector and toughened glass cover for use with SON-T 150W. lamps complete with all accessories by providing BHEL free issued GI pipe and fixed at a height of 15 meters on top of watch tower.	4	sets	520.8	2083.2
				Total Amount	476268.1

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.

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