

Bharat Heavy Electricals Limited
Ramachandrapuram : : Hyderabad – 502032
M&S - DIVISION

PRICE BID FORMAT-6C

TENDER No.M&S/P&C/2021/39, DT.: 13.09.2021

NAME OF WORK: Maintenance of HT LT Switchgear, Electrical Maintenance of Administrative Building and Maintenance of Roof Lighting, Street Lighting.

S.No.	Description of Work	Unit	Quantity	Rate (in Rs.)	Amount (Qty. X Rate)
1	Maintenance of HT Breaker 11 kV (detailed scope in Annexure A)	EA	267	1431.06	382093.02
2	Maintenance of LT Breaker 11 kV (detailed scope in Annexure A)	EA	531	954.04	506595.24
3	Maintenance of HT capacitor (detailed scope in Annexure A)	EA	8	3477.20	27817.6
4	Maintenance of LT capacitor banks (detailed scope in Annexure A)	EA	30	695.06	20851.8
5	Maintenance of DC tripping units and charges (detailed scope in Annexure A)	EA	50	123.78	6189
6	Dusting and cleaning (detailed scope in Annexure A)	EA	350	532.24	186284
7	Replacement of 5A/10A,250V Ivory colour flush type piano/thumbler /Roma switches/bell pushes, ceiling rose 5A, 250V 3 pin on existing board for fans and lights including checking of loose connections.	Nos.	392	31.65	12406.8
8	Replacement of 15 A/20A,250V Ivory colour flush typepiano/tumbler /Roma switches on existing board for power points control including checking of loose connections.	Nos.	180	31.65	5697
9	Laying of 1.5/2.5/4 s q.mm PVC insulated PVC sheathed single core multistranded Alluminium /copper conductor cable run on existing pipe/reaper for light and power points.	Mtrs.	1170	29.76	34819.2
10	Fixing of fuse distribution boards/MCBs wherever required. 6 way 15A three phase/ 8way 15A three phase.	Nos.	4	1740.09	6960.36
11	Rectification of loose connections in switch boards such as switches, sockets etc.	Nos.	90	49.46	4451.4
12	Refixing of loose hanging round blocks/reapers with new gutties, new screws on ceiling.	Gutties	27	44.51	1201.77
13	Clearing of neutral to earth, phase to earth short circuits & loose connections in wiring in buildings where ever required.	Nos.	72	148.37	10682.64
14	Cleaning and applying of one coat of Red-oxide paint on switch boards and distribution boards.	sq.mtr	23	148.37	3412.51
15	Cleaning and applying of two coats of Admiral grey paint/aluminium paint for on switch boards and distribution boards.	sq.mtr	23	148.37	3412.51
16	Cleaning of switch boards including switches/sockets (10"x12", 8"x10", 7"x4" ect.)	Nos.	108	44.51	4807.08
17	Cleaning of Switch boards and distribution boards with CTC & applying petroleum jelly for effective electrical contact and smooth operation.	Nos.	36	54.40	1958.4
18	Fixing of new light fittings of various capacities Old light fittings are to be dismantelled & return to stores (if any).	Nos.	150	272.03	40804.5
19	Supply and fixing of PVC pipe of 19 mm/25mm with suitable clamps, screws etc. to run on wall.	Mtrs.	108	44.51	4807.08
20	Installation of new wiring for Power points of 5A/16/20Amps, 250V for air conditioner/heater/ refrigerator, PC (separate line to be drawn from nearest FBD), lighting/fan with 2.5/1.5 Sq.mm single core multi-strand copper conductor cable run through PVC conduit pipe & 14SWG Cu wire and fixing of suitable metal box of Cd/GI coated with single pole 20 Amps MCB of reputed make and 1 No. of 16A switch cum socket of Anchor make.	Points	149	989.21	147392.29
21	Checking and attending the different type of FBDs at Admn. Bldg and rectify the defects if any.	Sets	36	227.52	8190.72
22	Checking and attending the MD Boards.Tightening of Busbars, jumpers and cable connections etc. and rectify the defects.	Sets	9	1038.67	9348.03

23	Operation of Public Address system at ABC Hall for all meetings. The skilled manpower should have experience in maintenance / operation of audio system equipments. The meetings in one day will be one operation. (one operation = 1 SW).	operations	207	504.50	104431.5
24	Dusting & cleaning of two Lifts at Admn. Bldg. Every day cleaning has to be completed within two hours in the morning before general shift. (one operation = 1 USW).	operations	45	222.57	10015.65
25	Cleaning of AC ceiling/Exhaust/wall and pedestal fans body and blades with VIM powder by duly bringing down and fixing.	Nos.	472	49.46	23345.12
26	Dismantling and assembly of 1200mm/1400mm sweep ceiling fan complete, ball bearing, Pedestal fans of 400mm sweep, Exhaust fans 300/400 mm sweep, Wall mounting fans of 400mm sweep, condenser lead wire winding, cleaning and greasing of bearings, oiling the bush bearings of fans with SAE 40 lubricating oil. Re-assembling, testing and refixing the same, (complete overhauling and testing). The rate should include the cost of soldering of wire leads to condenser connecting the same to the winding. (Bearings, and Oil seals & capacitors of BHEL free issue has to be replaced wherever required)	Nos.	140	306.66	42932.4
27	Removal of the existing paint of 1200/1400 mm sweep ceiling fans, ball bearing, Pedestal fans of 400mm sweep, Exhaust fans 300/400 mm sweep, Wall mounting fans of 400mm sweep, cleaning with caustic soda and repainting the same with one coat of primer & two coats of good quality white enamel paint with sprayer to make it good as original finish and letter painting of BHEL serial number with black/white paint.	Nos.	131	395.69	51835.39
28	Supply & Fixing of SKF ball bearings of the following specifications:- S - 8 bearing - NBC 6201 to 6204 bearings - HMT.	Nos.	54	247.30	13354.2
29	Removal of damaged bush bearing and Supply & fixing of new suitable bush bearing of required size for 1200/1400mm sweep ceiling/ exhaust/pedestal/ wall mounting fans. Old bush bearing should be returned to our stores.	Nos.	54	222.57	12018.78
30	Removal of faulty condenser and Supply & fixing of new condenser 2 MFD or 2.5 MFD, 400V, A.C. 50HZ. if required (with supports) for 1200/1400mm sweep ceiling/exhaust/pedestal/wall mounting fans, removed faulty condenser should be returned to our stores. (confirm to IS:1709/1984).	Nos.	72	148.37	10682.64
31	Supply & fixing of new suitable oil seal, old oil seal should be returned to our stores.	Nos.	77	69.24	5331.48
32	Removal of old twin core PVC Insulated lead wire and fixing of suitable length of 16/0.2mm copper conductor twin core, PVC insulated wire piece of superior quality to ceiling fans.	Nos.	90	44.51	4005.9
33	Supply and Replacement/Changing of rubber bush for various types of fans.	Nos.	45	44.51	2002.95
34	Supply and Changing of split pins (cotton pins) and checking of lock nut of ceiling fans.	Nos.	77	49.46	3808.42
35	Supply and Changing of down rod spindle screw for different types of ceiling fans.	Nos.	54	74.18	4005.72
36	Dismantling of AC ceiling/ Pedestal/exhaust/wall mounting fans from various bldgs & transporting the same to workshop for rewinding/for attending to major repairs/over hauling.	Nos.	135	74.18	10014.3
37	Fixing of AC ceiling/exhaust/Pedestal/wall mounting fans in various buildings after rewinding/after major Repairs/over hauling.	Nos.	135	74.18	10014.3
38	Removal of burnt out complete existing winding of 1200/1400mm AC ceiling fans & 300/400mm exhaust /pedestal/wall mounting fans and rewinding the same with suitable super enamelled copper wire as per standard practice and testing. Removed winding wire shall be retained by the contractor and suitably credited its value and net value to be quoted. The rate includes cost of winding wire and	Nos.	5	420.41	2102.05
39	Supply & Fixing of 200mm sweep exhaust fan of model: Cross Air of Crompton Greaves make.	set	4	3421.26	13685.04
40	Supply & Fixing of MS/GI pipe 15mm dia. 3/3.5mm thick with one side threaded and black painted suitable for ceiling fans.	Mtrs.	9	143.44	1290.96
41	Rectification of loose connections in fan switches regulators, ceiling rose etc.	Nos.	23	49.46	1137.58
42	Supply & fixing of ceiling fan speed regulators Electronic type of Crompton Greaves/Anchor/Orient.	Nos.	27	370.95	10015.65

43	Supply & fixing of ceiling fan speed regulators Resistance type of Crompton Greaves/Bajaj/Orient.	Nos.	36	222.57	8012.52
44	Supply & fixing of ceiling fan hooks 10mm rod in "S" shape to the ceiling rod including chipping the ceiling with necessary masonry work.	Nos.	14	222.57	3115.98
45	Removal of existing and fixing of 1200/1400/400/300mm sweep ceiling/exhaust/Pedestal/wall mounting fans in place of existing defective fan including new regulator and connecting it to power supply with suitable Cu wire. Old fan with regulator has to be returned to stores.	Nos.	32	197.84	6330.88
46	Carrying of Aluminium step ladder 6'8"/10' to carry out fan fault rectification and fixing of ceiling fans from site of work and back to electrical stores.	Nos.	243	9.89	2403.27
47	Checking of the healthiness of the various Road lighting circuits in the factory.	each	200	198.80	39760
48	Replacement of 2.5sqmm AL/cu cable.	Mtrs.	75	23.85	1788.75
49	Dismantling,Transporting of old light fittings including brackets and clamps to the maintenance workshop of 15/83 bldg for rectification/ reconditioning.	each	200	51.70	10340
50	Fixing of new/reconditioned street/yard light fittings of any type on any of the poles as directed with brackets and clamps.	each	200	43.75	8750
51	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.	Mtrs.	150	23.85	3577.5
52	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).	Mtrs.	1000	10.34	10340
53	Execution of end joints for item mentioned in point 52.	each	50	23.85	1192.5
54	Execution of straight through joints for item mentioned in point 52.	each	15	127.27	1909.05
55	Earth excavation (for poles/stays/struts) for pits of size 0.6x0.9x1.5 Mtrs. in all soils.	each	10	206.83	2068.3
56	Bending and fixing of GI pipe brackets for extending the length of existing street light brackets/New fittings. (GI pipe BHEL's free issue).	each	30	47.71	1431.3
57	Fixing of new PD box with Clamps, nuts, bolts and necessary accessories. (PD box will be BHEL's free issue).	each	40	63.63	2545.2
58	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	87.49	12248.6
59	Repair/Replacement of main contactors like ML2 to ML8 of L&T make.	each	15	87.50	1312.5
60	Repair/Replacement of 15/30/60/100 ICTP switches.	each	25	87.50	2187.5
61	Periodical checking and repair of the internal wiring of Security Watch towers.	each	10	954.56	9545.6
62	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	1431.80	5727.2
63	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	1789.79	3579.58
64	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	270.70	2707
65	Poles colouring with white snowcem paint (Snowcem paint is in the scope of contractor).	each	140	87.49	12248.6
66	Painting of serial numbers on RCC poles with black background and lettering with white enamel paint.	each	140	47.71	6679.4
67	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	296.00	29600

68	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.	Mtrs.	1000	7.25	7250
69	Replacement of combination boxes - fuse switches on ML oeads of 100 Amps or 63 Amps.	each	20	1262.25	25245
70	Laying & termination of Al armoured cables in shops of 25/35 sqmm.	Mtrs.	200	34.70	6940
71	Earthing points rectification but not earth pits.	each	25	78.87	1971.75
Total Estimation: Rupees Nineteen Lakhs Ninety Seven Thousand and Twenty One.					₹ 19,97,021
GST: 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 value.

SNO	Description	Tender % (in Figures)	Tender % (in words)
(a)	Excess		
(b)	Less		
(c)	Estimate Rate only		

SIGNATURE AND SEAL OF CONTRACTOR