

(Cover page for Price Bid)

Issued to: _____



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-32
TOWNSHIP ADMINISTRATION

TENDER DOCUMENTS (PRICE BID)

**Name of the work : Additions & alterations to electrical points in BHEL
 General Hospital, bore wells , NRSP & STDP.**

Tender Notice : HY/TA/E/OT-01/2011-12, Dt. 10.05.2011; Item No. 03

INDEX

1. Schedule 'A' : Schedule of rates and approximate quantities

SIGN. OF TENDERER

ISSUING OFFICER

Address:

Phone No. _____

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD - 32
(TOWNSHIP ADMINISTRATION)
ELECTRICAL DEPARTMENT
SCHEDULE - 'A'

Tender No.: HY/TA/E/OT-01/2011-12
Date : 10.05.2011
Item No.: 03

Additions & Alterations to Electrical points to BHEL General Hospital, Borewells, NRSP & STDP.

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
	WIRING				
1	Supply & Wiring with 2run 1.5sq.mm (22/.3mm) PVC insulated multistranded copper conductor cable L&T / Finolex make run together with single run 1 sq mm PVC insulated multistranded copper conductor for earth continuity in concealed / surface rigid with PVC conduit pipe of 25mm dia ;1.5 mm thick (Sudhakar make) through MS junction box. Wiring includes supply and fixing of 5A, 250V ceiling rose / PVC holder Anchor make on teak wood / PVC round block and 6A 250V piano type switch Anchor / Icon make on hylam sheet of thickness 3mm preferably white with suitable MS box for control of light, fan, bell and exhaust fan point; all complete as directed by engineer in charge.	Each	40	742.00	29,680.00
2	Supply & wiring with 1.5 sq.mm (22/.3mm) PVC insulated multi stranded copper conductor cable L & T / Finolex make together run with single run of 1 sq.mm PVC insulated multi stranded copper conductor for earth continuity run in concealed surface rigid PVC conduit pipe 25mm dia, 1.5mm thick (sudhakar make) through MS junction box. supply and fixing of 1 no. brass holder, 2 nos. 6A,250V two way piano type/flush type switches Anchor / Icon Make on Hylam sheet of thickness 3mm preferably white with suitable MS box for control from two sides for stair case light points; all complete as directed by engineer in charge	Each	2	1,213.00	2,426.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
3	Supply & wiring with 2 run 1.5 sq.mm (22/.3mm) PVC insulated multi stranded copper conductor cable L&T / Finolex make run together with 1 sq. mm PVC insulated multi stranded copper conductor for earth continuity run in concealed surface rigid PVC conduit pipe 25mm dia / 1.5 mm thick (sudhakar make) and supply & fixing of 2/3 pin flush mounted multipurpose 6A, 250 V piano type switch and socket Anchor / Icon make on Hylam sheet of thickness 3mm preferably white with suitable MS box for separate socket; all complete as directed by engineer in charge.	Each	6	541.00	3,246.00
4	Supply & fixing and connecting of, 2/3 pin flush mounted multipurpose 6A, 250 V piano type switch and socket Anchor / Icon make with internal connection 1.5sq.mm wire for control to be fixed on common switch board; all complete as directed by engineer in charge.	Each	12	66.00	792.00
5	Supply of 25mm dia 1.5mm thick PVC pipe of sudhakar make (ISI mark) and fixing as concealed / surfaced to wall / ceiling with all required accessories including massonary work and labour charges etc.; all complete as directed by engineer in charge	Mtr.	10	49.00	490.00
RUN OF MAINS					-
6	Supply & run of with 2.5 Sqmm PVC insulated Multistranded copper conductor cable of L&T /Finolex make run together with single run of 1.0 sq.mm PVC insulated multistranded copper conductor for earth continuity, run in concealed / surfaced rigid PVC conduit pipe 25 mm dia, 1.5 mm thick (sudhakar make) with all required accessories for single phase two wires run of mains; all complete as directed by Engineer-in-charge.	Rmt.	240	124.00	29,760.00
7	Supply & run of with 4.0 Sqmm PVC insulated Multistranded copper conductor cable of L&T /Finolex make run together with single run of 1.5 sq.mm PVC insulated multistranded copper conductor for earth continuity, run in concealed / surfaced rigid PVC conduit pipe 25 mm dia, 1.5 mm thick (sudhakar make) with all required accessories for single phase two wires run of mains; all complete as directed by Engineer-in-charge.	Rmt.	90	153.00	13,770.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
8	Supply & run of with 4.0 Sqmm PVC insulated Multistranded copper conductor cable of L&T /Finolex make run together with single run of 1.5 sq.mm PVC insulated multistranded copper conductor for earth continuity, run in concealed / surfaced rigid PVC conduit pipe 25 mm dia, 1.5 mm thick (sudhakar make) with all required accessories for three phase four wires run of mains; all complete as directed by Engineer-in-charge.	Rmt.	25	231.00	5,775.00
9	Supply & run of with 6.0 Sqmm PVC insulated Multistranded copper conductor cable of L&T /Finolex make run together with single run of 1.5 sq.mm PVC insulated multistranded copper conductor for earth continuity, run in concealed / surfaced rigid PVC conduit pipe 25 mm dia, 1.5 mm thick (sudhakar make) with all required accessories for single phase two wires run of mains; all complete as directed by Engineer-in-charge.	Rmt.	25	206.00	5,150.00
10	Supply & run of with 6.0 Sqmm PVC insulated Multistranded copper conductor cable of L&T /Finolex make run together with single run of 1.5 sq.mm PVC insulated multistranded copper conductor for earth continuity, run in concealed / surfaced rigid PVC conduit pipe 25 mm dia, 1.5 mm thick (sudhakar make) with all required accessories for three phase four wires run of mains; all complete as directed by Engineer-in-charge.	Rmt.	30	335.00	10,050.00
	ACCESSORIES				-
11	Supply and fixing of 250V, 6A ceiling rose of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	39.00	234.00
12	Supply and fixing of PVC slant / batten/ pendant holder Roma make. (Catalog no. 30125, 30114, 30103)	Each	6	57.00	342.00
13	Supply and fixing of buzzer bell of Anchor make; as directed by Engineer-in-charge.	Each	2	70.00	140.00
14	Supply and fixing of Ding dong bell of Anchor / Icon make; as directed by Engineer-in-charge.	Each	2	118.00	236.00
15	Supply and fixing of 250V, 6A piano type switch of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	32.00	192.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
16	Supply and fixing of 250V, 6A flush type socket of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	41.00	246.00
17	Supply and fixing of 250V, 16A switch or socket of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	77.00	462.00
18	Supply and fixing of 250V, 10A modular type switch of Anchor Roma make; as directed by Engineer-in-charge.	Each	4	111.00	444.00
19	Supply and fixing of 250V, 10A modular type socket of Anchor Roma make; as directed by Engineer-in-charge.	Each	4	131.00	524.00
20	Supply and fixing of 250V, 20A modular type switch of Anchor Roma make; as directed by Engineer-in-charge.	Each	6	176.00	1,056.00
21	Supply and fixing of 250V, 20A modular type socket of Anchor Roma make; as directed by Engineer-in-charge.	Each	6	229.00	1,374.00
22	Supply and fixing of 7" x 4" M.S Box with Hylam sheet of thickness 3mm preferably white with 16A Switch and 16A socket (or switch cum socket) of Anchor / Icon make; complete as directed by Engineer-in-charge.	Each	6	190.00	1,140.00
23	Supply and fixing of 250V, 6A, 3-pin plug tops of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	43.00	258.00
24	Supply and fixing of 250V, 16A, 3-pin plug tops of Anchor / Icon make; as directed by Engineer-in-charge.	Each	6	60.00	360.00
	HYLAM SHEET, M.S. BOXES & BOARDS				-
25	Supply, cutting & fixing of Hylam sheet of thickness 3mm preferably white on MS box.	Sq.Ft	3	103.00	309.00
26	Supply and fixing of 4" x 4" decolam board	Each	2	30.00	60.00
27	supply and fixing of 7" x 4" decolam board	Each	2	40.00	80.00
28	supply and fixing of 6" x 8" decolam board	Each	2	46.00	92.00
29	supply and fixing of 8" x 10" decolam board	Each	2	53.00	106.00
30	supply and fixing of 10" x 12" decolam board	Each	2	69.00	138.00
31	Supply and fixing of teak wood round block	Each	6	15.00	90.00
	MAINSWITCHES, FUSES & FUSE D.B.				-
32	Supply and fixing of 32A, 250V Porcelain rewirable fuse unit reputable make	Each	3	121.00	363.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
33	Supply and fixing of 32A, 415V Porcelain rewireable fuse unit reputable make	Each	3	141.00	423.00
34	Supply and fixing of 63A, 415V Porcelain rewireable fuse unit reputable make	Each	8	220.00	1,760.00
35	Supply, fixing and connecting of 250V, 32A Double Pole Iron Clad Main Switch with porcelain rewireable fuse units; complete as directed by Engineer-in-charge.	Each	1	898.00	898.00
36	Supply, fixing and connecting of 415V, 32A Triple Pole Iron Clad Main Switch; complete as directed by Engineer-in-charge.	Each	2	937.00	1,874.00
37	Supply, fixing and connecting of 415V, 63A Triple Pole Iron Clad Main Switch; complete as directed by Engineer-in-charge.	Each	2	2,044.00	4,088.00
	ISOLATORS, MCBs & MCB D.B.				-
38	Supply of 6A-32A MCB's of MDS make.	Each	8	210.00	1,680.00
39	Supply of 250V, 40/63A, 2-pole isolators (MCB) of MDS make.	Each	3	959.00	2,877.00
40	Supply of 415V, 63A, 4-pole isolators (MCB) of MDS make.	Each	3	1,852.00	5,556.00
41	Supply of 415V, 80/100A, 4-pole isolators (MCB) of MDS make.	Each	2	2,072.00	4,144.00
42	Supply, fixing and connecting of 3-phase 6-way single door MCB Distribution Box with 6A-32A MCB's and 80/100A isolator of MDS make; complete as directed by Engineer-in-charge.	Each	2	8,093.00	16,186.00
43	Supply, fixing and connecting of 3-phase 8-way single door MCB Distribution Box with 6A-32A MCB's and 80/100A isolator of MDS make; complete as directed by Engineer-in-charge.	Each	2	7,707.00	15,414.00
44	Supply and installation of 20A single phase MCB box with 20A metal clad plug-socket of Legrand / MDS make for termination of cable for AC point.	Each	2	1,077.00	2,154.00
45	Providing of earthing arrangement comprising of 100 mm inner dia, 3 mm thick GI pipe buried upto a minimum depth of 3.0 mtrs including filling the earth pit with homogenous layers of coke/charcoal, salt & sand etc. as required conforming to IS:3043. Suitable length of 8 SWG bare copper conductor to be bolted at bottom of the pipe and run around the pipe upto the surface connection point (Copper conductor included as separate item). The earth pit to be provided with brick masonry chamber with hinged cover and watering arrangement; complete in all respects, as directed by Engineer-in-charge.	Set	5	3,177.00	15,885.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
46	Supply and fixing of Copper flat / bare conductor.	Kg.	6	559.00	3,354.00
	M.S. ITEMS				-
47	Supply & fixing of angular iron frame in wall with 1/1.6 mm MS sheet on top with hinges & all four sides with screws. Necessary red-oxide / grey painting as directed by engineer in charge.	Kg.	90	112.00	10,080.00
48	Supply, fabrication & fixing of MS sheet cupboards made of sheet 1.6mm thick with single/double shutter and mechanical locking arrangements. The cupboards shall be given 2 coats of red-oxide paint and finished with necessary general purpose quick drying oil paint of suitable shade, etc. complete as directed by engineer in charge.	Kg.	180	184.00	33,120.00
	LIGHTING				-
49	Supply of B.C. bulbs 15w / 40w / 60w Bajaj / Phillips make	Each	5	12.00	60.00
50	Supply of Hylogen bulbs 500watt	Each	1	109.00	109.00
51	Supply of Hylogen bulbs 1000watt	Each	1	132.00	132.00
52	Supply of Tube light starters / starter base / side holder / side holder base / Rotary type holder reputed make.	Each	24	17.00	408.00
53	Supply of 40 watt / 36watts fluorescent tube	Each	6	51.00	306.00
54	Supply of 80 watt / 65watts fluorescent tube	Each	2	132.00	264.00
55	supply of 20W/40W copper choke phillips make	Each	6	143.00	858.00
56	Supply & erection of street light fitting including street light bracket GI pipe 32mm dia and length 1.5 Mtrs. The street light fittings shall be similar to Bajaj make model No BJSLA 240 including all standard accessories and 2 Nos. 4' fluorescent tubes and shall be fixed with MS flat clamps and with 15A rewirable porcelain fuse unit. as directed by engineer incharge.	Each	6	2,207.00	13,242.00
	SPECIAL ITEMS FOR GENERAL HOSPITAL				-
57	Cleaning and checking of ceiling fans / wall fans / Pedestal fans body and blades /tube and tube light fittings with detergent powder, wherever it is necessary.	Each	90	38.00	3,420.00
58	supply & fixing of tubular type heating element suitable for 50 Ltrs / 90 Ltrs water heaters 3 hole /triangular disc type / non-threaded type as per samples given as directed by engineer in charge .	Each	15	440.00	6,600.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
59	Supply & fixing of thermostat 30 °C to 90 °C adjustable and suitable for 25Lts to 90Lts.	Each	1	230.00	230.00
60	Servicing of storage type water heaters; Work involves cleaning, replacement, dismantling & refixing.	Each	4	193.00	772.00
61	Removal of MS rod from ceiling and fixing of 4'/5' tube light fitting to down rods with suitable MS clamps to provide ceiling rose on Teakwood round block (The work includes dismantling of fittings removal of existing gutties, clamps, bolts & nuts.) as directed by engineer in charge	Each	6	182.00	1,092.00
62	Supply of emergency lamp dry cell 6 Volts 10 AH rechargable maintenance free battery as directed by engineer in charge.	Each	15	510.00	7,650.00
63	Supply of 12way - 30Amps., 500 V Bakelite with brass terminal connectors as directed by engineer incharge	Each	20	154.00	3,080.00
64	Supply of 63Amps., 500 V Bakelite with 6 brass terminals connector for 3-phase, 40 HP motor, as directed by engineer incharge	Each	4	352.00	1,408.00
65	Supply of Kettle element 1.25" dia BPC size with checkout washers 2KW - Power Pack make.	Each	1	484.00	484.00
	SPECIAL ITEMS FOR BOREWELLS				-
66	supply and fixing of air break contactor 3TA11-11-0 Amps, rated current 22 Amps 1 NO + 1 NC 11 KW, 15HP, 415V (Siemens make) as directed by engineer incharge.	Each	3	2,526.00	7,578.00
67	supply and fixing of spare coils AC 50 cycles suitable for 3TA 76/3TA67/3TA21 & 3TA11 standard 415V as directed by engineer in charge.	Each	3	376.00	1,128.00
68	Supply & fixing of timer switch type TSQ-100 make Larsen & Turbo ltd. as directed by engineer incharge	Each	5	3,652.00	18,260.00
69	Supply and fixing D.O.L /Star delta star push buttons Red /Green colour	Each	6	113.00	678.00
70	Supply& crimping of copper Crimping lugs of following sizes				-
a	16 sq.mm	Each	8	14.00	112.00
b	25 sq.mm	Each	8	17.00	136.00
c	35 sq.mm	Each	12	30.00	360.00
d	50 sq.mm	Each	12	39.00	468.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
e	70 sq.mm	Each	12	47.00	564.00
71	Supply and fixing of Ammeter 0- 30 Amps / Voltmeter 0 - 500V; 22" dia round flush type as directed by Engineer in charge.	Each	8	108.00	864.00
	EXCAVATION OF CABLE TRENCHES				-
72	Earth work excavation for cable trenches of size 0.6m width & 0.9m deep in all soils except rocky, cutting of floor & roads & refill. (2.10.1.1)	Rmt.	240	71.00	17,040.00
73	Supply & spreading of sand cushion 5cm thick alround the cable & laying rough shahabad stone	Rmt.	240	89.00	21,360.00
74	Providing and fixing of 50mm dia. GI pipe (medium) (CPWD p-210 20.2.1.6) complete with GI fittings and clamps including cutting and making good the walls etc. (internal work)	Rmt.	20	343.00	6,860.00
75	Providing and laying in position cement concrete of specified grade excluding the cost of carrying and shuttering etc1:5:10	Cu.M	1	2,080.00	2,080.00
76	Laying of PVC insulated PVC sheathed steel armoured Al. conductor cable & connecting to switch and pole (both sides) (cable supplied by dept.)				-
a	2.5sq.mm to 16 sq.mm cable	Rmt.	120	13.00	1,560.00
b	25 sq.mm to 35 sq.mm cable	Rmt.	240	15.00	3,600.00
c	50 sq.mm to 95 sq.mm cable	Rmt.	240	19.00	4,560.00
77	Supply and fixing of heavy duty flange type brass cable glands with brass washers complete for the following sizes of cables :				-
a	2/3/4 core 2.5 - 6.0 sq.mm	No.	6	41.00	246.00
b	2/3/4 core 10 sq. mm	No.	6	72.00	432.00
c	4 core 16 sq. mm / 3.5 core 25 sq. mm	No.	6	87.00	522.00
d	3.5 core 35 sq.mm / 3.0 core 50 sq.mm	No.	6	91.00	546.00
e	3.5 core 50 sq.mm	No.	6	101.00	606.00
f	3.5 core 70 sq.mm	No.	6	126.00	756.00
g	3.5 core 95 sq.mm	No.	6	155.00	930.00
			TOTAL		360,239.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)

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

Tender %	Figures	words
Excess		
Less		
Estimate rate only		

Conditions :

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	The rates quoted for the items of work shall be inclusive of taxes (excluding sales tax & service tax) and duties levied by Central / State Govt. Organisations as well as local authorities.
3	Sales tax & Service tax will be extra if applicable for this contract. Taxes if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the taxes by the contractor.
4	If the contractor has not quoted the %age clearly , it is considered as incomplete tender and tender cannot be accepted.
5	All BHEL general conditions of contract and special conditions enclosed to this document are applicable to this work.
6	In case there is any difference in the quoted % age between figures and words, the resultant higher tender value will be taken for evaluation of tender priority and while awarding, lower tender value will be taken and this should be binding on the contractor.
7	The department reserves the right to cancel the work without assinging any reasons therefor.
8	The billing is done as per the units specified and completion to the satisfaction of Engineer-in-charge.
9	The quantities shown above are approximate and liable for variation.
10	Conditional offers are not acceptable.
11	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of BHEL-HR department.