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**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM :: HYDERABAD-32  
TOWNSHIP ADMINISTRATION

**TENDER DOCUMENTS ( PRICE BID )**

**Name of the work : Minor Electrical Renovation Works to Type-II, Type-III & Type-IV Quarters.**

**Tender Notice : HY/TA/E/OT-03/2013-14, Dt. 10.01.2014; Item No. 01**

-- INDEX --

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

ADDRESS :

PHONE NO. : \_\_\_\_\_

E-mail : \_\_\_\_\_

**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM :: HYDERABAD - 32**  
**TOWNSHIP ADMINISTRATION / ELECTRICAL DEPARTMENT**

**Tender No.: HY/TA/E/OT-03/2013-14**  
**Date : 10.01.2014**  
**Item No.: 01**

**SCHEDULE - 'A'**  
**MINOR ELECTRICAL RENOVATION WORKS TO TYPE-II, TYPE-III & TYPE-IV QUARTERS.**

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
<b>PART - A : TYPE - II QUARTERS ( 84 nos. )</b>					
1	Supply & Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	252	366.00	92,232.00
2	Supply & Wiring for twin control light point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	84	500.00	42,000.00
3	Supply and wiring for light plugs (separate socket) with 2 x 1.5 sq.mm + 1 x 1.5 sq.mm (earth wire) of FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit as required along with Supply and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection etc. as required; complete all as directed by Engineer-in-charge.	Each	336	549.60	1,84,665.60
4	Supply and fixing of 6 Amps. piano type switch and 3 pin 6 Amps. socket outlet on the existing switch box / cover including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	336	52.00	17,472.00
5	Supply & wiring for circuit / submain wiring alongwith earth wire with the following sizes of FR PVC insulated multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.				-
a)	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Rmt	2100	104.80	2,20,080.00
b)	2 x 6.0 sq.mm + 1 x 6.0 sq.mm earth wire	Rmt	840	164.80	1,38,432.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
6	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	168	180.00	30,240.00
7	Dismantling of old wirings and fittings such as switch boards / fans / tube lights / old wire accessories etc. Removed materials to be segregated and to be handed over at stores; as directed by directed by Engineer- in-charge.	No.	420	64.00	26,880.00
8	Supply & fixing of 5A, 250V 3-pin ceiling rose / PVC angle/batten holder (ISI marked) on the existing junction box / wooden block / PVC block including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	252	27.20	6,854.40
9	Supply & fixing of teak wood / PVC round blocks; complete all as directed by engineer-in-charge.	Each	252	12.27	3,092.04
10	Supply & fixing of 10"x12" size teak wood boards; complete all as directed by engineer-in-charge.	Each	168	38.45	6,459.60
11	Removing of existing tumbler switch/socket and fixing of new tumbler typr switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge. (Tumbler type switch/socket will be issued by BHEL free of cost)	Each	1260	19.00	23,940.00
12	Supply & fixing following piano type switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge.				-
a)	5/6 Amps switch	Each	840	23.60	19,824.00
b)	3-pin 5/6 Amps socket outlet	Each	336	28.40	9,542.40
<b>PART - B : TYPE - III QUARTERS ( 44 nos. )</b>					
13	Supply & Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	176	366.00	64,416.00
14	Supply & Wiring for twin control light point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	44	500.00	22,000.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
15	Supply and wiring for light plugs (separate socket) with 2 x 1.5 sq.mm + 1 x 1.5 sq.mm (earth wire) of FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit as required along with Supply and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection etc. as required; complete all as directed by Engineer-in-charge.	Each	220	549.60	1,20,912.00
16	Supply and fixing of 6 Amps. piano type switch and 3 pin 6 Amps. socket outlet on the existing switch box / cover including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	220	52.00	11,440.00
17	Supply & wiring for circuit / submain wiring alongwith earth wire with the following sizes of FR PVC insulated multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.				-
a)	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Rmt	1320	104.80	1,38,336.00
b)	2 x 6.0 sq.mm + 1 x 6.0 sq.mm earth wire	Rmt	528	164.80	87,014.40
18	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	88	180.00	15,840.00
19	Dismantling of old wirings and fittings such as switch boards / fans / tube lights / old wire accessories etc. Removed materials to be segregated and to be handed over at stores; as directed by directed by Engineer- in-charge.	No.	264	64.00	16,896.00
20	Supply & fixing of 5A, 250V 3-pin ceiling rose / PVC angle/batten holder (ISI marked) on the existing junction box / wooden block / PVC block including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	176	27.20	4,787.20
21	Supply & fixing of teak wood / PVC round blocks; complete all as directed by engineer-in-charge.	Each	176	12.27	2,159.52
22	Supply & fixing of 10"x12" size teak wood boards; complete all as directed by engineer-in-charge.	Each	132	38.45	5,075.40
23	Removing of existing tumbler switch/socket and fixing of new tumbler typr switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge. (Tumbler type switch/socket will be issued by BHEL free of cost)	Each	792	19.00	15,048.00
24	Supply & fixing following piano type switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge.				-

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
a)	5/6 Amps switch	Each	528	23.60	12,460.80
b)	3-pin 5/6 Amps socket outlet	Each	264	28.40	7,497.60
	<b>PART - C : TYPE - IV QUARTERS ( 27 nos. )</b>				
25	Supply & Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	135	366.00	49,410.00
26	Supply & Wiring for twin control light point with 1.5 sq.mm FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box, required bends, junction boxes etc. and earthing the point with 1.5 sq.mm. FR PVC insulated multistranded copper conductor single core cable etc as required; complete all as directed by Engineer-in-charge.	Each	27	500.00	13,500.00
27	Supply and wiring for light plugs (separate socket) with 2 x 1.5 sq.mm + 1 x 1.5 sq.mm (earth wire) of FR PVC insulated multistranded copper conductor single core cable in surface / recessed medium class PVC conduit as required along with Supply and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection etc. as required; complete all as directed by Engineer-in-charge.	Each	162	549.60	89,035.20
28	Supply and fixing of 6 Amps. piano type switch and 3 pin 6 Amps. socket outlet on the existing switch box / cover including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	162	52.00	8,424.00
29	Supply & wiring for circuit / submain wiring alongwith earth wire with the following sizes of FR PVC insulated multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.				-
a)	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Rmt	1350	104.80	1,41,480.00
b)	2 x 6.0 sq.mm + 1 x 6.0 sq.mm earth wire	Rmt	405	164.80	66,744.00
30	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (wiring separate with 2.5 sq.mm run of mains)	Each	108	180.00	19,440.00

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
31	Dismantling of old wirings and fittings such as switch boards / fans / tube lights / old wire accessories etc. Removed materials to be segregated and to be handed over at stores; as directed by directed by Engineer- in-charge.	No.	270	64.00	17,280.00
32	Supply & fixing of 5A, 250V 3-pin ceiling rose / PVC angle/batten holder (ISI marked) on the existing junction box / wooden block / PVC block including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	162	27.20	4,406.40
33	Supply & fixing of teak wood / PVC round blocks; complete all as directed by engineer-in-charge.	Each	162	12.27	1,987.74
34	Supply & fixing of 10"x12" size teak wood boards; complete all as directed by engineer-in-charge.	Each	135	38.45	5,190.75
35	Removing of existing tumbler switch/socket and fixing of new tumbler typr switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge. (Tumbler type switch/socket will be issued by BHEL free of cost)	Each	675	19.00	12,825.00
36	Supply & fixing following piano type switch/socket on the existing switch box/cover including connections etc. as required; complete all as directed by Engineer-in-charge.				-
a)	5/6 Amps switch	Each	540	23.60	12,744.00
b)	3-pin 5/6 Amps socket outlet	Each	135	28.40	3,834.00
	<b>TOTAL ... ..</b>			<b>( Rupees seventeen lakhs ninety one thousand eight hundred ninety eight &amp; paise five only )</b>	<b>17,91,898.05</b>

**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		

Sl. No.	Name of accessories	Recommended Make to be used
1	FR PVC insulated multistranded copper conductor single core cable ( 1.5 / 2.5 / 4.0 / 6.0 sq.mm )	1100 Volt Grade, Flame Retardant Low Smoke Type Only. FINOLEX / L&T / HAVELLS / ANCHOR. ( of suitable colour code as directed by Engineer-in-charge )

Sl. No.	Nature of work	Unit	Qty	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)
2	PVC Conduits	Sudhakar / Avonplast / Nandi			
3	6A & 16A piano type / modular type switches & sockets, Bell push	Anchor / GM / SSK / MK			
4	Lamp Holder, 3-pin ceiling rose	Anchor / GM / SSK / MK			
5	Calling Bell	Anchor / GM / SSK / MK			
6	63A, 240V rewirable porcelain fuse unit	Anchor / GM / SSK / MK			
7	MCB Dist. Board, 5-32A SP MCBs, 63A DP isolators	Havells / Legrand / Indoasian / Standard			
8	Metallic MCB Distribution Board with Metal Clad Socket + Plug top (for Air Conditioner)	Havells / Legrand / Indoasian / Standard			
9	14.0 Sq.mm (twin core) PVC insulated, sheathed, 1100V grade Aluminium Conductor cable	Payal / Fincab / Gold / Havells			
10	Stepped type electronic fan regulator	Anchor / GM / SSK / MK			
11	<b>Generally all materials supplied by the Contractor</b>	<b>approved make and ISI certified as agreed by the Engineer-in-Charge.</b>			

**Conditions :**

1	<b>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.</b>
2	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.
3	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.
4	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. (Ref NIT pg. 3)
5	<b>Maintenance period : six (6) months from the date of completion</b>