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**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM :: HYDERABAD-32

TOWNSHIP ADMINISTRATION

**TENDER DOCUMENTS ( PRICE BID )**

Name of the work : Electrical repair/ modification works to various schools in BHEL township under CSR.

Tender Notice : HY/TA/E/OT-01/2014-15, Dt. 12.11.2014; Item No. 01

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

ADDRESS :

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

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

SCHEDULE - 'A'

ELECTRICAL REPAIR/ MODIFICATION WORKS TO VARIOUS SCHOOLS IN BHEL TOWNSHIP UNDER CSR.

Sl. No.	Nature of work	Unit	Group - A			Group - B		Group - C	Total Qty.	Rate	Amount
			Jyothi School	ZPH School	St. Ann's high school	Gitanjali school	Vidya Bharathi school	St. Ann's primary school			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(10) x (11)
	<b>ELECTRICAL POINTS</b>										
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required; complete all as directed by Engr-in-charge.	Each	265	265	240	260	240	255	<b>1525</b>	619.00	9,43,975.00
2	Supply and fixing 3-pin, 5 Amps. ceiling rose / PVC batten / angle holder (ISI marked) including connection etc. as required; complete all as directed by Engr-in-charge.	Each	265	265	240	260	240	255	<b>1525</b>	34.00	51,850.00
3	Supplying and fixing stepped type electronic fan regulator on the existing switch box / cover including connections etc. as required; complete all as directed by Engr-in-charge.	Each	110	110	97	102	97	110	<b>626</b>	322.00	2,01,572.00

Sl. No.	Nature of work	Unit	Group - A			Group - B		Group - C	Total Qty.	Rate	Amount
			Jyothi School	ZPH School	St. Ann's high school	Gitanjali school	Vidya Bharathi school	St. Ann's primary school			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(10) x (11)
	<b>SOCKETS</b>										-
4	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 Engr-in-charge.	Each	31	31	30	40	30	32	<b>194</b>	687.00	1,33,278.00
5	Supply & fixing metal box of size 100mm x 100mm x 60mm deep on surface / in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required; complete all as directed by Engr-in-charge.	Each	31	31	30	40	30	32	<b>194</b>	86.50	16,781.00
6	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 Engr-in-charge.	Each	60	60	50	70	50	60	<b>350</b>	65.00	22,750.00
	<b>POWER SOCKET</b>										-
7	Supply and fixing suitable size GI box in recess with modular plate and cover in front, including providing and fixing 6-pin 5/6 & 15/16 Amp. socket outlet and 15/16 Amp. modular switch including connections etc. as required; complete all as directed by Engineer-in-charge.	Each	4	4	4	4	4	10	<b>30</b>	366.00	10,980.00

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			Jyothi School	ZPH School	St. Ann's high school	Gitanjali school	Vidya Bharathi school	St. Ann's primary school			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(10) x (11)
	<b>CIRCUIT</b>										-
8	Supply & wiring for circuit / submain wiring alongwith earth wire with 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire, all 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.	Metre	1800	1500	1500	1500	1200	2000	<b>9500</b>	131.00	12,44,500.00
	<b>MCB &amp; DB's</b>										-
9	Supply and fixing 4-way (4+12), Double door, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required; complete all as directed by Engineer-in-charge.	Each	3	3	3	3	3	4	<b>19</b>	1,654.00	31,426.00
10	Supplying and fixing 40A rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required; complete all as directed by Engineer-in-charge.	Each	3	3	3	3	3	4	<b>19</b>	554.00	10,526.00
11	Supply and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of single pole in the existing MCB DB complete with connections, testing and commissioning etc. as required; complete all as directed by Engineer-in-charge.	Each	36	36	36	36	36	48	<b>228</b>	141.00	32,148.00

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			Jyothi School	ZPH School	St. Ann's high school	Gitanjali school	Vidya Bharathi school	St. Ann's primary school			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(10) x (11)
12	Supply & fixing DP sheet steel enclosure on surface/recess along with 25/32 Amps 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required; complete all as directed by Engineer-in-charge.	Each	3	3	3	3	3	4	19	572.00	10,868.00
<b>ELECTRICAL FITTINGS</b>											-
13	Supply, installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of makes as mentioned below this schedule, complete with all accessories and lamp etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required; complete all as directed by Engineer-in-charge.	Each	120	120	110	114	110	120	694	869.50	6,03,433.00
14	Providing and fixing 16 mm MS fan clamps of standard shape and size in existing R.C.C. slab including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting exposed portion of the clamps etc.; complete all as directed by Engineer-in-charge.	Each	110	110.00	97.00	102.00	97.00	110.00	626	190.10	1,19,002.60
15	Supply, installation, testing and commissioning of 1200mm (48") sweep double ball bearing type ceiling fan of Bajaj / GEC / Crompton Greaves make, with all standard accessories, including fan hooks and clamps etc. including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required; complete all as directed by Engineer-in-charge.	Each	110	110.00	97.00	102.00	97.00	110.00	626	1,884.00	11,79,384.00

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			Jyothi School	ZPH School	St. Ann's high school	Gitanjali school	Vidya Bharathi school	St. Ann's primary school			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(10) x (11)
16	Supply and installation of 225mm (9") sweep light duty exhaust fan of Bajaj / GEC / Crompton Greaves make having propeller type metallic blades and louver shutter. Installation includes cutting of wall in required shape and size manually / by mechanical means and making good the damage etc. The exhaust fan to be mounted properly with foundation bolts grouted to the wall and finished smooth to match the wall. The exhaust fan to be connected with suitable length of 16/0.2mm twin twisted copper cable; complete all as directed by Engineer-in-charge.	Each	4	4.00	4.00	4.00	4.00	4.00	24	1,579.00	37,896.00
	<b>EARTHING</b>										-
17	Supply & installation of earthing comprising of 40 mm dia, 3 mm thick GI pipe buried upto a minimum depth of 4.5 mtrs including excavation of pit and filling the pit with homogenous layers of coke/charcoal, salt & sand etc. as required conforming to IS Standards (IS:3043). 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.	Each	4	4	4	4	4	4	24	3,385.00	81,240.00
18	Providing and fixing 4.00 mm dia annealed copper wire on surface or in recess for loop earthing as required; complete all as directed by Engineer-in-charge.	Each	60	60.00	60.00	60.00	60.00	60.00	360	87.50	31,500.00
	<b>REMOVAL OF OLD WIRING</b>										-
19	Dismantling and removal 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 Engineer-in-charge.	L.S.	1	1	1	1	1	1	6	2,000.00	12,000.00
	<b>TOTAL ... ..</b>		<b>( Rupees forty seven lakhs seventy five thousand one hundred nine &amp; paise sixty only )</b>								<b>47,75,109.60</b>

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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	<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.
5	<b>Maintenance period : one (1) year from the date of completion</b>

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<b>Sl. No.</b>	<b>Name of accessories</b>	<b>Recommended Make to be used</b>									
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 )									
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	16.0 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	Tube Light Fittings	Philips ADRENO V2 28W TWG207 HF with 1xTL5-28W Lamp (2013 catalog - pg. 182) Bajaj BTIP 128 N LHD with 1x28W T5 Lamp (2013 catalog - pg. 17 - ordering code 539055) Havells E-LITE MAGLEV DLX with 1x28W T5 FTL (2013 catalog - pg. 6 - ordering code LHDF11128032)									
12	<b>Generally all materials supplied by the Contractor</b>	<b>approved make and ISI certified as agreed by the Engineer-in-Charge.</b>									