

BHARAT HEAVY ELECTRICALS LIMITED						
RAMACHANDRAPURAM :: HYDERABAD-502032						
(TOWNSHIP ADMINISTRATION)						
					Tender Notice No.	
Part -B (Price Bid Electrical)					HY/TA/OT-10/2014-15	
					Date: 04.12.2014, Item. No. 01	
Name of work:- Electrical works for Construction of classrooms at ZPH School, Serilingampally under CSR works.						
No.	Description	Unit	Detailed	Qty.	Rate	Amount
ELECTRICAL POINTS						
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.	Point	Ceiling fan point : 4 rooms x 4 = 16 nos. Tube light point : 4 rooms-16, balcony-3, stair case-2, toilets-4 = 25 nos. Exhaust fan point : for toilets = 4 nos. Total = 45 nos.	45	499.00	22,455.00
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 Engr-in-charge.	Point	for stair case = 2 nos.	2	625.00	1,250.00
3	Supply and fixing 3-pin, 5 Amps. ceiling rose / PVC batten / angle holder (all ISI marked) including connection etc. as required; complete all as directed by Engr-in-charge.	Each	sl. no. 1 + sl. no. 2 Total = 45+2 = 47	47	34.00	1,598.00
4	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	Total = 16 nos.	16	322.00	5,152.00
SOCKETS						
5	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	4 rooms x 3 = 12 nos. Balcony = 2 nos. Total = 14 nos.	14	65.00	910.00

No.	Description	Unit	Detailed	Qty.	Rate	Amount
6	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	4 rooms x 2 = 8 nos. Balcony = 2 nos. Total = 10 nos.	10	687.00	6,870.00
7	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	Total 2 Nos.	2	225.00	450.00
CIRCUIT / WIRING						
8	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 Engr-in-charge.					-
a)	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Metre	for circuit wiring to all switch boards	150	131.00	19,650.00
b)	2 x 6.0 sq.mm + 1 x 6.0 sq.mm earth wire	Metre	for wiring up to DB	40	206.00	8,240.00
MCB - DB's						
9	Supplying and fixing following way, sheet steel, single pole and neutral MCB distribution board on surface / in recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB/RCCB/Isolator); complete all as directed by Engr-in-charge.					-
a)	240V, 2 + 6 way, Double Door	Each	Total = 1 nos.	1	778.00	778.00
10	Supplying and fixing following rating isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required; complete all as directed by Engr-in-charge.					-
a)	240V, 40 Amps, double pole isolator	Each	Total = 1 nos.	1	245.00	245.00

No.	Description	Unit	Detailed	Qty.	Rate	Amount
11	Supplying and fixing Single Pole, 5 Amps to 32 Amps rating, 240/415 volts, "C" curve, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required; complete all as directed by Engr-in-charge.	Each	Total = 6 nos.	6	141.00	846.00
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	Total = 2 nos. (for building lights)	2	572.00	1,144.00
13	Supply and fixing of crimping type copper lugs of suitable sizes conforming to I.S. specifications for cables upto 16 sq. mm. including connections; complete all as directed by Engr-in-charge.	Each	Approx. 30 Nos. for terminations in DB.	30	6.00	180.00
EARTHING						
14	Supply & installation of earthing arrangement 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 Engr-in-charge.	Each	Total = 2 nos.	2	3,385.00	6,770.00
15	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 Engr-in-charge.	metre	Approx. 20 metre for each	40	87.50	3,500.00
SERVICE CONNECTION						
16	Supply & fixing of one run of 16.0 Sq.mm (7/16) twin core PVC insulated & sheathed WPTC 1.1 kV grade multistranded Aluminium Conductor flat cable of recommended make for service mains along with 7/20 SWG steel support wire outside building and concealed /surface in rigid PVC conduit inside the building including necessary clips insulation tape etc., for service tapping as directed by Engr-in-charge.	metre	Approx. 70 metres	70	75.00	5,250.00

No.	Description	Unit	Detailed	Qty.	Rate	Amount
17	Supply, fabrication and fixing / grouting of eye bolt made of MS rounds 10/12/16mm dia. as directed by Engr-in-charge.	kg	Approx. 2 kgs.	2	122.00	244.00
18	Supply & fixing of guy insulator of 80x50mm. One guy insulators to be fixed at either ends of the GI wire supporting the service connection cable.	Each	Total 2 Nos.	2	44.00	88.00
ELECTRICAL FITTINGS						
19	Supply, installation, testing and commissioning of 1400mm sweep ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required; complete all as directed by Engr-in-charge. Make : Havells / Bajaj / CG.	Each	Ceiling fans : 4 rooms x 4 = 16 nos.	16	1,923.00	30,768.00
20	Supply & Installation of exhaust fan of 300 mm sweep in the existing opening, including making good the damage, connection, testing, commissioning etc. as required; complete all as directed by Engineer-in-charge. Make : Havells / Bajaj / CG.	Each	Exhaust fans : for toilets = 4 nos.	4	1,888.00	7,552.00
21	Supply, Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting, 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. (Makes : as mentioned below this schedule)	each	Tube lights : 4 rooms-16, balcony- 3, stair case-2, toilets 4 = 25 nos.	25	869.00	21,725.00
22	Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole / building including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	Each	Total = 2 nos.	2	713.00	1,426.00

No.	Description	Unit	Detailed	Qty.	Rate	Amount
23	Supply, installation & testing of 150W street light luminaire (with lamp) to the existing G.I. pipe bracket including supply and connection with required length of 32/0.20mm (1.0 sq.mm) twin circular FR PVC sheathed flexible copper cable from junction box to light fitting including all incidental charges. Street light luminaire shall have high pressure die cast aluminium housing, POT optics reflector and heat resistant toughened flat glass offering IP-65 ingress protection. Luminaire : PHILIPS Esplanade SGP-401 with lamp CDMTT-150W	Each	Total = 2 nos.	2	8,702.00	17,404.00
TOTAL					Rs.	164,495.00
Rate details :						
Make : (any one of the following)						
Light Fittings						
- Bajaj BJCEB 136 WEBS with 1x36W FTL Lamp (2013 catalog - pg. 18 - ordering code 538664)						
- Philips PROTON - TMS 021 1xTL-D36W I with 1xTL-D36W Lamp (2013 catalog - pg. 66)						
Tender %		In words			Figures	
Excess						
Less						
Estimate						
Notes:-						
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 tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.					
3	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	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 HR department BHEL.					
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.					
6	The maintenance period of the work is 04 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.					