

**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM :: HYDERABAD-502032

(TOWNSHIP ADMINISTRATION)

	Tender Notice No.
<b>PRICE BID - PART - B</b>	HY/TA/OT-12/2014-15
	Date: 10.01.2015, Item. No. 02
<b>Name of work: "Construction of classrooms in school at Kondapur village under CSR works company MOU - Civil and Electrical works".</b>	

**PART - A Construction of Three class rooms - Civil works"**

SL. No	Description of item	Qty	Unit	Rate	Amount
1	Clearing jungle including uprooting of rank vegetation, brush wood trees and sapling of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of thse area cleared.	800	Sqm	2.64	2112.00
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed for all kinds of soil .	150.00	Cum	101.85	15277.50
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level ,1:5:10 (1cement 5: fine sand 10 grade stone aggregate 40mm nominal size)	50.00	Cum	2079.60	103980.00
4	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with cement mortar 1:6(1cement 6 coarses sand)	90.00	Cum	1913.10	172179.00
5	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4( 1cement 2 coarse sand 4grade stone aggrigate 12.5mm nominal size)	50.00	sqm	144.15	7206.78
6	Reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses plinth and string course fillets columns pillars piers abutments posts and struts etc. up to floor five level excluding cost of centering shuttering finishing and reinforcement,1:2:4( 1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	35.00	Cum	3720.00	130200.00
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, intels, bands, plain window sills, staircases and spiral strair cases upto floor five level excluding the cost of centering shuttering finishing and reinforcement with 1:2:4( 1cement 2 coarse sand 4 grade stone aggrigate 20mm nominal size)	61.00	Cum	3673.85	224104.85

8	Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete. Mild steel and medium tensile steel bars	12000.00	Kg	41.5	498000.00
9-a	Centering and shuttering including strutting propping etc. and removal of form work for :Columns piers, abutments, pillars, posts and struts.	65.00	sqm	238.4	15496.00
9-b	Centering and shuttering including strutting propping etc. and removal of form work for :Foundations , Footings, bases for columns	150.00	sqm	119.25	17887.50
9-c	Centering and shuttering including strutting propping etc. and removal of form work for :Suspended floors roofs, landing balconies and access platform	305.00	sqm	187.35	57141.75
9-d	Centering and shuttering including strutting propping etc. and removal of form work for :Lintels, beams, plinth beams, girders, bressumens and cantilevers.	240.00	sqm	162.65	39036.00
10	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete - Fixed to opening / wooden frames with rawl plugs screws etc.	240.00	Kg	64.4	15456.00
11	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position:Second class teak wood	1.00	Cum	52090.00	52090.00
12	Supplying and fixing 30mm thick ISI marked solid core flush door veneer facing shutters conforming to IS:2201 ( Part I) commercial type, all as directed by engineer-In-charge.	7.00	sqm	989.00	6923.00
13	Supplying and fixing of white clear acrylic sheet of 3 mm thick of required sizes with glass putty required for fixing to the existing steel/wooden windows including removing the existing broken glass panes/plywood panes along with the bedding/glass putty, cost of all materials and labour etc., complete all as directed by Engineer In charge.	16.00	sqm	1050.00	16800.00
14-a	Providing and fixing ISI marked oxidised M.S. pressed butt hinges of size 100x58x1.90 mm with necessary screws etc all as directed by Engineer-in-charge.	18.00	No	13.45	242.10
14-b	Providing and fixing ISI marked oxidised M.S. pressed butt hinges of size 75 x 47 x1.70 mm with necessary screws etc all as directed by Engineer-in-charge.	72.00	No	9.30	669.60
14-c	Providing and fixing ISI marked oxidised M.S. aldrops of size 300 mm with necessary screws etc all as directed by Engineer-in-charge.	3.00	No	108.80	326.40
14-d	Providing and fixing ISI marked oxidised M.S. tower bolt black finish(Barrel type) of size 200x10 mm with necessary screws etc all as directed by Engineer-in-charge.	9.00	No	28.60	257.40

14-e	Providing and fixing ISI marked oxidised M.S. tower bolt black finish(Barrel type) of size 100x10 mm with necessary screws etc all as directed by Engineer-in-charge.	72.00	No	17.25	1242.00
14-f	Providing and fixing ISI marked oxidised M.S. Handls conforming to IS:4992 of size 125 mm with necessary screws etc all as directed by Engineer-in-charge.	9.00	No	10.20	91.80
14-g	Providing and fixing ISI marked oxidised M.S. Handls conforming to IS:4992 of size 100 mm with necessary screws etc all as directed by Engineer-in-charge.	36.00	No	7.75	279.00
15	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6(1cement :6 coarse sand)	72.00	Cum	2601.90	187336.80
16	20mm cement plaster of mix 1:6( 1 cement 6 fine sand)	750.00	Sqm	95.10	71325.00
17	6 mm cement plaster of mix:1:3(1 cement : 3 fine sand)	325.00	Sqm	62.15	20198.75
18	<b>Providing new black boards in CM 1:4, 12 mm thick</b> , mixed with 5 kgs of black oxide powder to 50 kgs of cement including neat finishing and painting in two coats with black board paint of approved brand over a coat of primer including cost of all materials etc complete as directed by the Engineer-in-charge. Black powder rate is considered Rs.50x16%/1 kg as per local market.	11.00	One Sqm	109.55	1205.05
19	Laying Shabad Stone flooring with Tandur white 25.40mm thick over a base of Mud Mortor of 20.00 mm thick and pointing to full depth of stone with Cement Mortor 1:3 Prop including cost of Conveyance of all materials and seigniorage charges on all materials like Shabad Stone Sand Cement Dry Mud and Water, all taxes, labour charges etc., Mixing of mortor, curring etc., complete for finished item of work (S.S. 702)	225.00	One Sqm	309.59	69657.75
20	Providing imprevious coat over RCC roof sab with CM (1 : 3) prop. 20 mm average thick mixing with water proofing agent like accoproof or any other impermo compound at 1 Kg per bag of cement laid over roof slab when it is green including cost and conveyance of al materials to site Cost of seigniorange charges on all materials, all taxes labour charges such as mixing laying to proper slopes as directed during execution, rendring smooth and thred lining at regular inyerval of 450 mm x 450 mm and around off junction of all and slabs curing etc. complete for finishing item of the work.( aas per SS 902) Per 1 Sqm.	250.00	Sqm	128.86	32215.00

21	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	600.00	Sqm	47.20	28320.00
22	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade new work (two or more coats) over and including priming coat with cement primer	600.00	Sqm	41.55	24930.00
23	Finishing walls with Premium Acrylic Smooth exterior paint with silicone additives of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied@ 2.20 kg/10sqm).	500.00	sqm	51.40	25700.00
24	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade,two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	110.00	sqm	51.30	5643.00
25	filling available excavated earth (excluding rock) in trenches, plinth sides of founding each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5,.	100.00	Cum	45.70	4570.00
26	Supplying and stacking at site , moorum	20.00	Cum	421.85	8437.00
				<b>subtotal</b>	<b>1856537.03</b>

**PART - B Construction of Three class room - Electrical works"**

	<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 flexible 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.	36	Each	619.00	22,284.00
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.	36	Each	34.00	1,224.00
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.	12	Each	322.00	3,864.00
	<b>SOCKETS</b>				0

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 flexible 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.	6	Each	687	4122
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.	6		86.5	519
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.	15	Each	65	975
	POWER SOCKET				0
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.	3	Each	366	1098
	CIRCUIT				0
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 flexible multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.	375	Metre	131	49125
9	Supply & wiring for circuit / submain wiring alongwith earth wire with 4 x 6.0 sq.mm + 2 x 6.0 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.	15	Metre	358	5370
	MCB & DB's				

10	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.	1	Each	1654	1654
11	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.	1	Each	554	554
	ELECTRICAL FITTINGS				0
12	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.	15	Each	869.5	13042.5
13	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.	12	Each	190.1	2281.2
14.a	Supply of 48" AC ceiling fans 1200 mm sweep .Make CG/Usha/Oriental/Havells.	12	Each	1431	17172
14.b	Installation, testing and commissioning of 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, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required; complete all as directed by Engineer-in-charge.	12	Each	99	1188
	EARTHING				0
15	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.	1	Each	3385	3385

16	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.	60	Each	87.5	5250
				<b>subtotal</b>	<b>133,107.70</b>

**Total amount ( A+B) Rs. 1,989,644.73**

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	<b>Service tax</b> 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 <b>12 months</b> . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.