

BHARAT HEAVY ELECTRICALS LIMITED

RAMACHANDRAPURAM :: HYDERABAD-502032

(TOWNSHIP ADMINISTRATION)

	Tender Notice No.
PRICE BID - PART - B - Item No. 01	HY/TA/OT-10/2014-15
	Date: 04.12.2014, Item. No. 01

Name of work : Construction of class room & Toilet two blocks at Zilla Parishad School at Serilingampally Ranga reddy District Telangana state.(Civil works)

Part-A Construction of class room					
SL NO	Description	Qty	Unit	Rate	Amount
1	Supply of JCB including driver, diesel and all other misc. expenses including repairs, break downs expenses for removal / loading of earth etc complete all as directed by Engineer-in-charge.	50.00	hours	750.00	37,500.00
2	Engaging a tractor with hydraulic lift trailor for disposal of earth / any materials as required from time to time with in a lead of 4 kms. For loading and unloading separate payment will be made through labour. The engaged tractor should have a valid fitness certificate etc complete all as directed by the Engineer-in-charge.	10.00	Tractor / day	1,000.00	10,000.00
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth, within a lead of 50 m and lift up to 1.5 m disposed earth to be levelled and neatly dressed for all kind of soils all as directed by Engineer-in-charge	180.00	Cum	101.85	18,333.00
4	Plain cement concrete 1:5:10 mix using 40 mm guage down graded machine crushed granite metal in foundation including consolidation, curing and cost of all materials etc complete.	50.00	Cum	2,079.60	103,980.00
5	Coursed rubble stone masonry 2nd sort with hard granite stone in foundation and plinth with cement mortar 1:6 (1 cement : 6 coarse sand) including curing cost of all materials as directed by Engineer-in-charge.	90.00	Cum	1,913.10	172,179.00
6	Providing and laying Damp Proof cement with PCC of 1:2:4(1cement : 2 coarse sand : 4 graded stone aggregate) 20 mm nominal size as per direction of Engineer-in-charge.	3.00	Cum	3,257.45	9,772.35
7	Reinforced cement concrete work in beams,suspended floors,roofs having slope upto 15 degreelandings,balconies,shelves,chajjas,lintels,bands,plain window sills,staircases upto floor five level excluding cost of centering,shuttering,finishing and reinforcement with 1:2:4 (1cement : 2 coarse sand : 4 graded granite stone aggregate 20 mm nominal size) including curing , cost of all materials as per direction of Engineer-in-charge.	125.00	Cum	3,673.85	459,231.25
7(a)	Add or deduct for plaster drip course / groove in plastered surface or moulding to RCC projections	26.40	Metre	11.95	315.48
8	Reinforcement for R.C.C. work including straightening , cutting,bending placing in position and binding all all as directed by Engineer-in-charge.	13000.00	Kgs	41.50	539,500.00
9	Providing Steel/ Plywood shuttering with necessary oil coat to give smooth and even surface including centering , strutting , propping etc. and removal of form work for cast in situ concrete work in suspended floors,roofs,landings,balconies and access platform etc. etc. complete all as directed by Engineer-in-charge.	900.00	Sqm	187.35	168,615.00
10	Supply, fabrication and fixing of ornamental MS grills of approved quality and design including fixing of MS hold fasts in Cement concrete, cost of all materials etc., complete as directed by the Engineer-in-charge.	720.00	Kgs	64.40	46,368.00
11	Providing wood work in frames of doors windows, clerestory windows and other frames, wrought framed and fixed in position ie.Second class teak wood	1.30	Cum	52,090.00	67,717.00
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.	10.00	One Sqm	989.00	9,890.00
12(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.	24.00	Each	13.45	322.80
12(b)	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.	12.00	Each	28.60	343.20
12(c)	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.	12.00	Each	7.75	93.00
12(d)	Providing and fixing ISI marked oxidised M.S. aldrops of size 300 mm with necessary screws etc all as directed by Engineer-in-charge.	4.00	Each	108.80	435.20
13	Providing and fixing 30 mm fully glazed shutters for doors windows and clerestory windows using 4mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.	24.00	Cum	1,541.65	36,999.60
14	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 1:4(1cement :4 coarse sand)	90.00	Cum	2,601.90	234,171.00

15	Plastering in CM 1:6, 12 mm thick including neat finishing , curing, cost of all materials, labour etc.complete.	925.00	Sqm	72.70	67,247.50
16	Plastering in cement mortar 1:3, 6 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	410.00	Sqm	62.15	25,481.50
17	Providing new black boards in CM 1:4, 20 mm thick, 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.	15.00	Sqm	145.80	2,187.00
18	Flooring / dadoing polished shahabad stone slabs of 25 mm thick (Tandur blue) uniform shade and approved quality, over a base of cement mortar 1:6 and pointing with cement paste including curing, cost of all materials etc.complete.	310.00	Sqm	309.59	95,972.90
19	Damp proof course in cement mortar 1:4, 20 mm thick mixed with best water proofing compound of approved brand at the rate of 2% by weight of cement, neat finishing, curing etc, complete all as directed by Engineer-in-charge.	350.00	Sqm	144.15	50,452.50
20	Providing wall putty wherever required and supply and application of Two coats of Altek Superfine, One coat of Altek water based cement primer & Two coats of Altek Flora (plastic Emulsion paint) etc.complete ncluding cost of all materials all as directed by engineer-in-charge	360.00	Sqm	97.00	34,920.00
21	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.	770.00	Sqm	41.55	31,993.50
22	Applying two or more coats of Acrylic smooth exterior paint of required shade applied @ 1.67 ltr/10 sqm. Over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm of approved brand and shade including cost of all materials etc. complete .	550.00	Sqm	50.40	27,720.00
23	Painting with synthetic enamel paint of approved brand and manufacture 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	160.00	Sqm	51.30	8,208.00
24	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.,	170.00	Cum	45.70	7,769.00
25	Coveyance of excavated earth upto a lead of 2 km as directed by engineer- in - charge.	30.00	Cum	56.41	1,692.30
26 a	Earth work in excavation by mechanical means (hydraulic excavator) manua means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed. Hard rock (requiring blasting)	5.00	Cum	252.20	1,261.00
26b	Excavating holes upto 0.5 cum including getting out the excavated soil, the returing the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming watering etc. disposing of surplus excavated soil as directed within a lead of 50 m and lift up to 1.5 m.	180.00	Each	152.10	27,378.00
					2,298,049.08
Part-B Construction of Toilet at Zilla Parishad School (Two Block)					
1	Grass cutting including light jungle, collection of stones, disposing, the cut grass and light jungle to places as directed by the Engineer-in-charge. The rate quoted shall include the cost of cutting, cleaning, loading, conveyance within a lead of 2 KM to places as directed and spreading etc complete.	800.00	One Sqm	0.75	600.00
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth, within a lead of 50 m and lift up to 1.5 m disposed earth to be levelled and neatly dressed for all kind of soils all as directed by Engineer-in-charge	100.00	One Cum	101.85	10,185.00
3	Plain cement concrete 1:5:10 mix using 40 mm guage down graded machine crushed granite metal in foundation including consolidation, curing and cost of all materials etc complete.	20.00	One Cum	2,079.60	41,592.00
4	Coursed rubble stone masonry 2nd sort with hard granite stone in foundation and plinth with cement mortar 1:6 (1 cement : 6 coarse sand) including curing cost of all materials as directed by Engineer-in-charge.	50.00	One Cum	1,913.10	95,655.00
5	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 1:4 (1cement :4 coarse sand)	40.00	One Cum	2,601.90	104,076.00
6	Half brick masonry cement mortar 1:4 (1cement :4 coarse sand) with FPS brick of class designation 75 in superstructure above plinth level upto floor V level.	100.00	sqm	302.80	30,280.00

7	Reinforced cement concrete work in beams,suspended floors,roofs having slope upto 15 degree landings,balconies,shelves,chajjas,lintels,bands,plain window sills,staircases upto floor five level excluding cost of centering,shuttering,finishing and reinforcement with 1:2:4 (1cement : 2 coarse sand : 4 graded granite stone aggregate 20 mm nominal size) including curing , cost of all materials as per direction of Engineer-in-charge.	22.00	One Cum	3,673.85	80,824.70
7(a)	Add or deduct for plaster drip course / groove in plastered surface or moulding to RCC projections	18.16	Metre	11.95	217.01
8	Reinforcement for R.C.C. work including straightening,cutting,bending placing in position and binding all all as directed by Engineer-in-charge.	2750.00	Kg	41.50	114,125.00
9	Providing Steel/ Plywood shuttering with necessary oil coat to give smooth and even surface including centering , strutting , proping etc. and removal of form work for cast in situ concrete work in suspended floors,roofs,landings,balconies and access platform etc. etc. complete all as directed by Engineer-in-charge.	250.00	One Sqm	187.35	46,837.50
10	Plastering in CM 1:6, 12 mm thick including neat finishing , curing, cost of all materials, labour etc.complete.	430.00	One Sqm	72.70	31,261.00
11	Plastering in cement mortar 1:3, 6 mm thick including curing, cost of all materials etc, complete all as directed by Engineer-in-charge.	120.00	One Sqm	62.15	7,458.00
12	Supply, fabrication and fixing of ornamental MS grills of approved quality and design including fixing of MS hold fasts in Cement concrete, cost of all materials etc., complete as directed by the Engineer-in-charge.	1000.00	Kgs	64.40	64,400.00
13	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy bottle green black of any size as approved by engineer in charge in skirting risers of steps and dados over 12mm thick bed of cement including pigment of matching shade , hacking the existing surface,cleaning the surface with water, grouting the joints with pigment in wet condition, including loading, unloading and conveyance to site all as directed by Engineer-in-charge.	310.00	One Sqm	556.60	172,546.00
14	Providing and laying nonskid floor tiles 300x300mm (thickness to be specified by the manufacture) of 1 st quality conforming IS 15622 of approved make in colours such as white Ivory grey fume red brown laid on 20mm thick cement mortar 1:4(1 cement 4 coarse sand) including pointing the joints with white cement and matching pigment, hacking the existing surface,cleaning the surface with water, grouting the joints with pigment in wet condition, including loading, unloading and conveyance to site all as directed by Engineer-in-charge. etc. complete.	90.00	One Sqm	598.65	53,878.50
15	Providing and fixing factory made UPVC door frame made of UPVC extruded section of size 48 x 40 mm (tolerance ± 1 mm) with wall thickness 2.0mm ± 0.2 mm , corners of the door frame to be mitred and welded of plastic, galvanized brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanized M.S tube of size 19 x 19 mm and 1 mm ± 0.1 mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.	40.00	One Rmt	141.00	5,640.00
15	Providing and fixing 24 mm thick factory made SINGLE/DOUBLE PVC door shutters made of styles and rails of a UPVC hollow section of size 59 x 24 mm and wall thickness 2 mm ± 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S galvanised/ plastic brackets of size 75 x 220 mm having wall thickness 1.0mm and stainless screws. The styles of the shutter reinforced by inserting galvanised M.S tube of size 20 x 20 mm and 1mm ± 0.1 mm wall thickness. The lock rail made up of ' H ' section, a UPVC hollow section of size 100 x 24 mm and 2mm ± 0.2 mm wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S ' U ' cleats . The shutter frames filled with a UPVC multi-chambered single panel of size not less than 620 mm , having over all thickness of 20 mm and 1 mm ± 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	12.00	One Sqm	2,190.50	26,286.00
16	Applying two or more coats of oil bound distemper of approved brand and shade including priming coat with cement primer on new works to give an even shade including cost of all materials etc. complete .	120.00	Sqm	41.55	4,986.00
17	Finishing walls with Acrylic Smooth exterior paint of required shade over the 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.	200.00	Sqm	50.40	10,080.00

18	Applying two or more coats of synthetic enamel paint of approved brand and manufacturer to give an even shade on new work including cost of all materials etc. complete as directed by Engineer Incharge.	600.00	sqm	35.35	21,210.00
19	Damp proof course in cement mortar 1:4, 20 mm thick mixed with best water proofing compound of approved brand at the rate of 2% by weight of cement, neat finishing, curing etc. complete all as directed by Engineer-in-charge.	90.00	One Sqm	144.15	12,973.50
20.a	Fixing white vitreous china Orissa pattern W.C pan and white P.V.C flushing cistern with all fittings and fixtures complete including cutting and making good the walls and floors wherever required etc. complete all as directed by Engineer-in charge.	8.00	Each	2,304.65	18,437.20
20.b	Supplying and fixing CI nahani traps ist quality/ISI marked conforming to IS:1729-1979 with C.P. grating fixing with white cement as per requirements with standard practice.100 mm dia inlet-75 mm(3") outlet pipe-4 Kgs.	12.00	Each	200.00	2,400.00
20.c	Fixing of GI pipes TATA/ZINDAL make (Class-B) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 25 mm dia (1") dia.	80.00	One Rmt	179.65	14,372.00
20.d	Fixing of GI pipes TATA/ZINDAL make (Class-B) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for	60.00	One Rmt	133.85	8,031.00
20.e	Fixing of GI pipes TATA/ZINDAL make (Class-B) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 15 mm dia (1/2") dia.	60.00	One Rmt	105.85	6,351.00
20.f	Supplying and fixing 150 mmx100 mm SWG gully traps of ISI make conforming to ISI 651 & 4127 with C.I. Grating and Constg.Brick masonry in CM 1:6 prop. Intermediate chamber and fitted with 304.8 mmx288.6 mm (12"x9") C.i frame and hinged cover .	8.00	Nos	321.00	2,568.00
20.g	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931a) 15mm nominal bore.	12.00	Nos	347.65	4,171.80
20.h	Providing and fixing unplasticised P.V.C. connection 15 mm diameter with 450 mm length pipe with PTMT nuts collar and bush of approved quality and colour.	70.00	Nos	52.90	3,703.00
20.i	Providing and placing on Terrace(at all floor levels) 1000 Lits. Capacity Polyethylene water storage tank with double layer approved brand and manufacture with cover and with all accessories (25mm Ball Cock 1 No., 25 mm Tank Nipples - 3 with Check Nuts, Washers etc.) etc. including labour charges complete as directed by the Engineer-in-charge.	8.00	Each	5,250.00	42,000.00
20.j	Providing and fixing 15 mm dia CP brass longbody bibcock (SEIKO DELUXE HD make) and weighing not less than 690 gms.	20.00	Each	315.80	6,316.00
20.k	Fixing sudhakar/Prince PVC pipes of 110mm dia, rate includes dismantling of any old existing pipe, making good the joints with external specials from P/S traps with proper slope complete all as directed by Engineer-in-charge.	60.00	Rmt	163.40	9,804.00
20.l	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make conforming to IS 8931 15 mm nominal bore	58.00	Each	313.10	18,159.80
21	Constructing brick masnory chamber for underground CI inspection chamber and bends with 75 class designation bricks in cement mortar 1:4(1 cement 4 coarse sand) CI cover with frame (light duty) 455x610mm internal diamensions total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) RCC top slab with 1:2:4 mix(1 cement 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement 5 fine sand 10 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3(1cement 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc, complete as per standard design.				

	Inside dimensions 455x610mm and 45 cm deep for single pipe line	8.00	Nos	3,146.40	25,171.20
22	Constructing of brick masonry inspection chamber of inside dimensions 0.914 x 0.45 M with brick work in CM 1:6 , Masonry inspection chamber up to 914.4 mm (3') and fitted with light weight 914.4 mmx457.2 mm (3'x1'6") C.I. frame and cover of 40 kg. etc., complete as directed by Engineer-in-charge.	6.00	Nos	3,226.00	19,356.00
23	Earth work in excavation by mechanical means (hydraulic excavator) manua means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	Hard rock (requiring blasting)	10.00	cum	252.20	2,522.00
23	Refilling the foundations and basement with excavated soils including watering, consolidation etc. complete all as directed by Engineer -in-charge.	90.00	Cum	45.70	4,113.00
24	Coveyance of excavated earth upto a lead of 2 km as directed by engineer- in - charge	50.00	One Cum	56.41	2,820.50
25	Providing, laying and joining glazed stone ware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc., complete, of 150 mm diameter all as directed by Engineer-in-charge.	100.00	Rmt	151.65	15,165.00
26	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 430x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unios and GI clamps complete including painting of fitting and brackets cutting and making good the walls and floors wherever required One urinal basin with 5 ltr white PVC automatic flushing cistern	29.00	Each	2,018.70	58,542.30
27	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe	29.00	Each	1,069.50	31,015.50
					1,230,130.51
Part - C, Cement concrete path					
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level, 1:2:4 (1cement 2:coares sand 4 grade stone aggregate 20mm nominal size)	90.00	Cum	3,257.45	293,170.50
Total Civil works (Part A+B+C) = RS.					3,821,350.09
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.				

* The above estimates are excluding service tax.

*Estimates prepared comply with guidelines issued by corporate vigilance dept. vide ref No:- AA/VAS/1349-E dtd.11.11.2009.