

BHARAT HEAVY ELECTRICALS LIMITED	
RAMACHANDRAPURAM :: HYDERABAD-502032	
(TOWNSHIP ADMINISTRATION)	
	Tender Notice No.
PRICE BID - PART - B	HY/TA/OT-12/2014-15
	Date: 10.01.2015, Item. No. 01

Name of work: "Construction of Classrooms and Toilet blocks (separate for boys & girls) in Malkapur school under CSR works corporate MOU - Civil and Electrical works".

PART-A Civil Works - Construction of class rooms

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 these 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	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	Cum	2079.6	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	Cum	1913.1	172179.00
5	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4(1cement 2 coarse sand 4grade stone aggregate 12.5mm nominal size)	49.995	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 aggregate 20mm nominal size)	35	Cum	3720	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 aggregate 20mm nominal size)	61	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	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	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	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	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	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	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	Cum	52090	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	sqm	989	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	sqm	1050	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	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	No	9.3	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	No	108.8	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	No	28.6	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	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	No	10.2	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	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	Cum	2601.9	187336.80
16	20mm cement plaster of mix 1:6(1 cement 6 fine sand)	750	Sqm	95.1	71325.00
17	6 mm cement plaster of mix:1:3(1 cement : 3 fine sand)	325	Sqm	62.15	20198.75
18	Providing new black boards in CM 1:4, 12 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. Black powder rate is considered Rs.50x16%/1 kg as per local market.	11	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	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, 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	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	Sqm	47.2	28320.00
22	Distempering 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	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	sqm	51.4	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	sqm	51.3	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	Cum	45.7	4570.00
26	Supplying and stacking at site , moorum	20	Cum	421.85	8437.00
				subtotal	1856537.03

PART-B Electrical works - Construction of class rooms

ELECTRICAL POINTS					
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	22284.00
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	1224.00
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	3864.00
SOCKETS					
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	4122.00
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.	6		86.5	519.00

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.	15	Each	65	975.00
	POWER SOCKET				0.00
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	1098.00
	CIRCUIT				0.00
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	49125.00
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	5370.00
	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	1654.00
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	554.00
	ELECTRICAL FITTINGS				
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	13042.50
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	2281.20

14.a	Supply of 48" AC ceiling fans 1200 mm sweep .Make CG/Usha/Oriental/Havells.	12	Each	1431	17172.00
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	1188.00
	EARTHING				0.00
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	3385.00
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	5250.00
				subtotal	133,107.70

PART-C - Civil works - Construction of Toilets

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 these area cleared.	400	Sqm	2.64	1056.00
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 .	50	Cum	101.85	5092.50
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)	10	Cum	2079.6	20796.00
4	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with cement mortar 1:6(1cement 6 coarse sand)	25	Cum	1913.1	47827.50
6	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)	20	Cum	2601.9	52038.00
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.	50	sqm	302.8	15140.00

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 aggregate 20mm nominal size)	11	Cum	3673.85	40412.35
8	Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete. Mild steel and medium tensile steel bars	1100	Kg	41.5	45650.00
9	Centering and shuttering including strutting propping etc. and removal of form work for : Suspended floors roofs, landing balconies and access platform	125	Sqm	187.35	23418.75
10	20mm cement plaster of mix 1:6(1 cement 6 fine sand)	215	Sqm	95.1	20446.50
11	6 mm cement plaster of mix:1:3(1 cement : 3 fine sand)	60	Sqm	62.15	3729.00
12	Steel work welded in built up sections/ frames work including cutting hoisting fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required, In gratings frames guard bar ladder railing brackets gates and similar works	500	Kg	51.2	25600.00
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 pigment of matching shade completes	155	One Sqm	556.6	86273.00
14	Providing and laying Non skid 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 etc. complete.	45	One Sqm	598.65	26939.25
15	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance -+1mm) with wall thickness 2.0mm - + 0.2mm, corners of the door frame to be mitred and welded of pastic, galvanized brackets and stainless steel screws . the hinges side vertical of the frames reinforced by galvanized stainless steel hinges fixed to the frame complete as per manufactures specification and direction of engineer in charge. Extruded section profile size 48x40mm	19	Rmt	141	2679.00

16	24mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24mm and wall thickness 2mm + 0.2mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of MS galvanised / plastic brackets of size 75x220 mm having wall thickness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised MS tube of size 20x20mm and 1mm + 0.1mm wall thickness. the lock rail made up of H section a UPVC hollow section of size 100x24 mm and 2 mm + 0.2mm wall thickness fixed to the shutter styles by means of plastic/ galvanised MS.U cleats. the shutter frame filled with a UPVC multi chambered single panel of size not less than 620 mm having over all thickness of 20mm and 1mm + 0.1mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised MS rod and fastened with nuts and washers, complete as per manufacture's specification and washers complete as per manufacture's specification and direction of engineer in charge. (for W.C and bathroom door shutter)	6	One Sqm	2190.5	13143.00
17	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	60	Sqm	41.55	2493.00
18	Finishing walls with Acrylic smooth exterior paint 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 @ 2.20kg/ 10sqms	100	Sqm	50.4	5040.00
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work	30	Sqm	35.35	1060.50
20	Providing impervious coat over RCC roof slab 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 all 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, rendering smooth and thred lining at regular interval of 450 mm x 450 mm and around off junction of all and slabs curing etc. complete for finishing item of the work.(as per SS 902) Per 1 Sqm.	45	Sqm	128.86	5798.70
21.a	Providing and fixing water closet squatting pan(indian type WC pan) with 100mm sand cast iron P or S trap 10 ltr low level white PVC flushing cistern with manually controlled device (handle level) conforming to IS 7231 with all fitting and fixtures complete including cutting and making good the walls and floors wherever required White vitreous china orissa pattern WC pan of size 580x440mm with integral type four rests	4	Each	2304.65	9218.60

21.b	Supplying and fixing CI nahani traps ist qualityISI marked confirming 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.	6	Nos	200	1200.00
21.c	Providing and fixing GI pipes complete with GI fitting and clamps including cutting and making good the walls etc. 25mm nominal bore	40	Rmt	179.65	7186.00
21.d	Providing and fixing GI pipes complete with GI fitting and clamps including cutting and making good the walls etc. 20mm nominal bore	30	Rmt	133.85	4015.50
21.e	Providing and fixing GI pipes complete with GI fitting and clamps including cutting and making good the walls etc. 15mm nominal bore	30	Rmt	105.85	3175.50
21.f	Supplying and fixing 150 mmx100 mm SWG gully traps of ISI make confirming 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 .	4	Nos	321	1284.00
21.g	Providing and fixing 15 mm nominal bore C.P. brass stop cock(concealed) of standard design and of approved make confirming to IS:8931.	35	Nos	313.1	10958.50
21.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.	35	Nos	52.9	1851.50
21.i	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fitting and the base support for tank	4	Each	5250	21000.00
21..j	Providing and fixing 15 mm dia CP brass longbody bibcock (SEIKO DELUXE HD make) and weighing not less than 690 gms.	10	Each	315.8	3158.00
21.k	Providing and fixing on wall face unplasticised rigid pvc rain water pipes conforming to IS 13592 type a including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion (i) single socketed pipes 110mm diameter	30	Rmt	163.4	4902.00
21.l	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	14	Nos	2018.7	28261.80

21.m	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe white PVC automatic flushing cistern with fitting standard size GI flush pipe for back and front flush with standard spreader pipes with fitting GI clamps and CP brass coupling complete including painting of fitting and cutting and making good the walls and floors etc. wherever required. Single squatting plate with 5 ltr PVC automatic flushing cistern	14	Nos	2392.55	33495.70
21.n	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised rigid PVC rain water pipes conforming to IS 13592 type A including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion, 110mm bend	10	Nos	134.2	1342.00
21.o	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore	4	Nos	333.25	1333.00
21.p	Providing and fixing PTMT ball cock of approved quality colour and make complete with Epoxy coated aluminium rod with L.P/ H.P.H.D plastic ball, 20mm nominal bore, 120mm long weighing not less than 198gms	4	Nos	234.5	938.00
21.q	Providing and fixing PTMT extension nipple for water tank pipe fitting of approved quality and colour, 20mm nominal bore. weighing not less than 40gms	12	Nos	45.75	549.00
22	Constructing brick masonry 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 dimensions 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(1 cement 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	4	Nos	3146.4	12585.60
23	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 mm x 457.2 mm (3'x1'6") C.I. frame and cover of 40 kg. etc., complete as directed by Engineer-in-charge.	3	Nos	3226	9678.00

24	Earth work in excavation by mechanical means (hydraulic excavator) manual 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	cum	252.2	1261.00
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,.	45	Cum	45.7	2056.50
26	Coveyance of excavated earth upto a lead of 2 km	25	Cum	56.41	1410.25
27	Providing and laying and jointing glazed stoneware 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 150 mm diameter	50	Rmt	151.65	7582.50
				subtotal	613076.00

PART-D - Electrical works - Construction of Toilets

ELECTRICAL POINTS					
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.	14	Each	619	8666.00
CIRCUIT					
2	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.	230	Metre	131	30130.00
3	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 flexible multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.	8	Metre	358	2864.00
MCB & DB's					
4	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	554.00

5	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.	2	Each	141	282.00
ELECTRICAL FITTINGS					
6	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.	4	Each	869.5	3478.00
7.a	Supply of 9" AC Exhaust fans make CG/Usha/Oriental.	6	Each	1316	7896.00
7.b	Installation, connecting to the point and commissioning of exhaust fan upto 450 mm sweep including cutting of wall in required shape and size manually / by mechanical means including making good the damage etc. complete as directed by Engr-in-charge.	6	Each	263	1578.00
EARTHING					
8	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	3385.00

9	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.	35	Each	87.5	3062.50
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subtotal **61,895.50**

Total Amount (A+B+C+D) Rs. 2,664,616.23

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 12 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.