



**BHARAT HEAVY ELECTRICALS LIMITED  
RAMACHANDRAPURAM::HYDERABAD::32  
FACTORY CIVIL ENGINEERING DEPARTMENT**

SCHEDULE- A

Tender Notice No:

**PRICE BID**

HY/FCD/OT-07/2011-12, Dt:- 04.07.2011

Item no : 2

**Name of work: Construction of LPG Storage yard facilities at South West of Factory area.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
	<b>Part - A - LPG yard</b>				
1a	<b>Earth work in excavation in all soils</b> by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50M.	169.00	Cu.m	103.40	17,474.60
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	159.00	Cu.m	122.30	19,445.70
c	----do---- up to second additional depth of 3.01 M to 4.50 M.	14.00	Cu.m	141.20	1,976.80
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	15.00	Cu.M	2,449.00	36,735.00
3a	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>upto plinth level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	65.00	Cu.M	3,732.00	242,580.00
b	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>upto Floor five level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	38.00	Cu.m	4,092.35	155,509.30
4	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts.	950.00	Sq.m	180.40	171,380.00
5	<b>Reinforcement for R.C.C. work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	7.44	M.T	42,700.00	317,688.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
6	<b>Filling</b> with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50.00 m and lift upto 1.50 m.	52.00	Cu.M	45.70	2,376.40
7	<b>Conveyance and stacking</b> at site murrum (gravel). (Excluding cost of murrum which has to be supplied from the designated places of surplus excavated soil from BHEL factory / township area). BHEL will pay the conveyance charges.	28,800.00	Cu.m	56.41	1,624,608.00
8	<b>Brick work</b> with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6.	231.00	Cu.M	2,463.60	569,091.60
9a	Plastering in <b>CM 1:6, 20 mm</b> thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc, complete -Upto 10.00 M level.	2,045.00	Sq.m	95.10	194,479.50
b	Cement Plaster to <b>ceiling</b> /walls with <b>12mm</b> thick cement plaster finished with a floating coat of neat cement of mix 1:3 ( 1 cement : 3 fine sand).	45.00	Sq.m	107.80	4,851.00
10	Supply and fixing of top fixed, side hung of NCL Seccolor Ajantha windows & Ventilators fabricated from Roll formed section made of pre painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, galvanized as per IS 277 with zinc 120 GSM / Sq. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Gasket made of E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws. Approximate size of windows 1.30mx0.9m and 3.00mx2.10m -Double shutter without guard bars(grills)... Excise duty/nap on clips etc. complete. (No. of door -1, nly	5.00	Sq.m	4,046.00	20,230.00
11	Providing Boulder to required thickness of minimum 230mm using hard granite stone boulders and 25% granite metal of 38.1 to 76 mm (1-1/2" to 3") gauge for opacking and 20% gravel for filling interstices etc; complete all as directed by Engineer-in-charge.	310.00	Cu.M	729.00	225,990.00
12	Preparation and consolidation of Sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc; and re-rolling the sub grade and disposal of surplus earth lead upto 2.00 KM .	2,100.00	Sq.m	33.90	71,190.00
13	Supply and stacking at site 63 mm to 45 mm size stone aggregate.	418.00	Cu.M	768.45	321,212.10

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
14	Supply and stacking at site Murum.	140.00	Cu.m	421.85	59,059.00
15	Laying, Spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fillup interstices of coarse aggregate watering and compacting to the required density.	560.00	Cu.m	192.55	107,828.00
16	Providing and applying tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications on WBM surface @ 0.75 Kg/Sq. m.	2,100.00	sq.m	31.28	65,688.00
17	Providing and Laying <b>premix bituminous macadam base course</b> with stone aggregate of quality size and grading as specified in CPWD specification and straight run bitumen of grade 80/100 @ 4 % by weight of total mix including hot mixing of stone aggregate and bitumen in hot mix plant, transporting mixed material and laying mixed material with paver finisher to the required level and grade, rolling with road roller of 8 to 10 tonne capacity to achieve the required compaction and density of <b>50 mm compacted thickness</b> .	2,100.00	Sq.m	268.93	564,753.00
18	Plastering over <b>roof slab in CM 1:4, 20mm</b> thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg = Rs 4.61) upto 10 m height.	36.00	Sq.m	115.06	4,142.16
19	Supplying and laying of <b>vitrified tiles</b> of brighter shades and marble design of Premium Quality (1st quality ) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of size <b>600 x 600mmx8 mm</b> thick of approved make. It includes cost of cutting, chamfering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only.	16.00	Sq.m	950.00	15,200.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
20	Supply & fixing of full height aluminium door with double leaf manual slide opening mechanism at main entrance in required size made out of anodised aluminum box section of size 44.50x47.50x2 mm for verticals, top and middle rails and 101.60x44.50x2 mm for bottom rail inclusive of supply & fixing of all aluminium fixtures and fittings suitable to the door sliding mechanism, handles, suitable locking arrangement etc. complete, wherever members are joined wooden runners are to be inserted in the box section. This includes grouting of rails/aluminum sliding sections to the floor properly etc. complete as directed by Engineer-in-charge. Providing & fixing of 12 mm toughened glass with rubber beading with screwless snap on clips etc. for top portion of the door frame of approximate size 3' x 2.5' on each door leaf and 12 mm thick "Novapan" particle board, exterior grade, laminated on both sides fixed to bottom portion of the door frame of approximate size 3' x 4.5' on each door leaf with rubber beading, screwless snap on clips etc. complete. (No. of door -1,  door leaf - 2 Nos.and the approximate size of the door is 1.8x2.4 m - 2 Nos. & 1.2x2.1 m - 2 Nos.	2.10	Sq.m	4,000.00	8,400.00
21	Applying <b>exterior</b> emulsion paint 2 coats over one coat of primer to external new plastered surfaces including cost of all labour and other incidentals. (only exterior paint will be issued by BHEL on free of cost).	2,090.00	Sq.m	20.55	42,949.50
22	Flooring in 25mm thick using 1 cement and 3 parts of granite stone chips of 3 to 10mm gauge (no sand) ellis pattern first sort including neat finishing, curing, cost of materials etc; complete.	24.00	Sq.m	196.00	4,704.00
23	Dismantling <b>brick masonry</b> walls for all heights, removing and clearing the debries and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc., complete.	150.00	Cu.m	355.88	53,382.00
24	Fencing with G.I barbed wire with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I staples, turn buckles etc. complete. (Cost of posts, struts, earthwork and concrete work to be paid separately) : payment to be made per metre cost of total length barbed wire used.	10,160.00	R.M	8.45	85,852.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
25a	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores	4.95	MT	7,563.80	37,440.81
b	Erection of Steel work out lined in item No.1 above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	4.95	MT	3,241.60	16,045.92
c	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	4.95	MT	596.50	2,952.68
	<b>Total Part-A (LPG yard)</b>	<b>Rs.</b>		<b>5,065,215.07</b>	

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
	<b>Part - B - Septic Tank</b>				
1a	<b>Earth work in excavation in all soils</b> by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan ) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50M.	30.00	Cu.m	103.40	3,102.00
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	20.00	Cu.m	122.30	2,446.00
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	2.04	Cu.M	2,449.00	4,995.96
3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>up to plinth level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	1.60	Cu.M	3,732.00	5,971.20
4	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for walls (any thickness) including attached pillasters, butterresses, plinth and string courses etc;	10.00	Sq.M	180.40	1,804.00
5	<b>Reinforcement for R.C.C. work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	0.10	M.T	42,700.00	4,099.20
6	Plastering in <b>CM 1:6, 20 mm</b> thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc, complete -Upto 10.00 M level.	9.36	Sq.m	95.10	890.14
7	<b>Coursed rubble masonry</b> in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement : 6 coarse sand)	11.34	Cu.m	1,913.10	21,694.55
8	Plastering over <b>roof slab in CM 1:4, 20mm</b> thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg = Rs 4.61) upto 10 m height.	18.63	Sq.m	115.06	2,143.57
9	<b>Brick work</b> with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6.	1.08	Cu.M	2,357.40	2,545.99
	<b>Total Part - B (Septic Tank)</b>	<b>Rs.</b>		<b>49,692.61</b>	

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
	<b>Part - C - Toilets at LPG Yard</b>				
1	Supply and fixing of new urinary pans, "Parry ware" make, ceramic, Model (Cat 0575)- "New Magnum Urinal" (590 mm x 400 mm) along with all accessories, C.P spreader brackets etc., along with partition for Magnum Urinal ceramic, 'Z' type brackets to be screwed to the wall at the bottom. Colour - Silky Off - White	1.00	Each	3,933.00	3,933.00
2	Supply and fixing with "Parry ware" make Cascade series wash hand basin of size 550 mm x 450 mm oval shape with counter top with centre tap hole, regular in colour with all accessories like brackets, screws etc., complete.	1.00	Each	2,024.00	2,024.00
3	Supply and fixing of new "Parry ware" make Elite - European water closet of size 530 mm x 400 mm, with "P/S" trap including PVC Slimline Dual flush tank (Cistern) of size 475 mm x 318 mm (Code No. C8109), EWC standard seat cover (Cat C8071) with all accessories like Parryware flush kit suitable to the above flush tank, brackets, screws, connecting pipe from flush tank to EWC, PVC Connections etc. complete. Colour: Silky Off - White.	1.00	Each	2,000.00	2,000.00
4	Supply and fixing of new "Parry ware" make Indian Water Closet, Orissa pan of size 580 mm x 410 mm - Open rim (Code No. C0109) including PVC Slimline Dual Flush tank (Cistern) of size 475 mm x 318 mm (Code No. C8109) with all accessories like Parryware flush kit suitable for the above flush tank with all required accessories etc., complete. Colour: Silky Off - White.	1.00	Each	3,000.00	3,000.00
5	Supply & fixing of 6 mm thick mirror of approved quality "Modi float/Saintgobin glass", with 6 mm thick hard board back and with best quality teak wood frame (design beading) all round the mirror including necessary clamps, polishing to the beading, cost of all materials etc. complete.	0.80	Sq.m	1,445.00	1,156.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
6	Providing and fixing shutters along with frames for toilets that are 30 mm thick factory made PVC rigid foam paneled, door and shutters manufactured by M/s. Rajashri made from M.S. tube, 19 gauge thick, size 19x19mm for styles and 15x15mm for top and bottom rails, covered with heat moulded PVC "C" channel of 5mm thick sheet and 30x50mm wide for styles and 5mm thick and 75mm wide PVC sheets for top rail and bottom rail either side and 5 mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, paneling of 5mm thick PVC sheet fitted with M.S. frame welded / sealed to the styles and rails with 5x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc. complete in all respects as per direction of engineer in-charge fixed to frames. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers (For W.C. and bathroom doors).	1.70	Sq.m	1,830.00	3,111.00
7	Supply & fixing "Jaquar" make Pressmatic urinal flush valve for urinal pots (Cat. No. 51027) with all accessories.	1.00	Each	1,320.00	1,320.00
8	Supply & fixing "Marc" make Oreintal series brass bib cocks, with all accessories / Cat: MOR 1030.	1.00	Each	506.00	506.00
9	Supply & fixing "Jaquar" make Pressmatic pillar cock for wash basins, with all accessories. (Cat: 031)	1.00	Each	519.00	519.00
10	Supply & fixing "Marc" make Oriental series brass stop cock with all accessories.	2.00	Each	698.00	1,396.00
11a	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 mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 Kg per Sq.m including poniting in white cement mixed with pigment of matching shade complete.	12.00	Sq.m	556.80	6,681.60
b	Supply & fixing of <b>18 mm thick</b> best quality approved colour and design machine cut <b>mirror polished granite slabs</b> in required sizes for counter wash basins, floorings, vanity counter, claddings, facias etc. including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of granite slabs shall be Rs. 1600/- per Sq. m and granite slabs of required design and colour will be selected by department.	7.00	sq.m	3,070.92	21,496.44

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
12	Supply & fixing in position PVC Pipes of 3" dia(as per IS 6kg/sq.m) of best quality for drainage lines / urinal / hand wash areas including chasing the brick wall, concrete etc and making good the same after fixing the same etc. complete.	4.00	RM	345.56	1,382.24
13	Supplying and fixing CI <b>Nahany traps</b> 1st quality ISI marked conforming to IS: 1729 - 1979 with C.P Grating fixing with white cement as per site requirements with standard practice - 100mm inlet - 75 mm dia (3") outlet pipe - 4 Kgs.	1.00	Each	200.00	200.00
14a	Supply & fixing <b>15 mm dia Nominal Bore GI pipe medium Grade properties</b> and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete. Make: TATA/JINDAL/ZENITH	2.00	RM	131.00	262.00
b	.. Do... 20mm dia (3/4")	6.00	RM	146.00	876.00
c	.. Do... 25mm dia (1")	60.00	RM	191.00	11,460.00
15a	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia	1.00	Each	242.00	242.00
b	.. Do .. 20mm dia (3/4")	1.00	Each	327.00	327.00
c	..do ...25mm dia (1")	3.00	Each	482.00	1,446.00
16	Construction of brick masonry chamber of size 23 x 30 Cm (9" x 12") in brick work in CM 1:6 and plastering in CM 1:4, 20 mm for <b>gully trap</b> 150 mmx100mm including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc., complete.	1.00	Each	321.00	321.00
17	Providing and placing on terrace (at all floor levels) of <b>polyethylene water storage tank of 1000 ltrs capacity</b> with double layer approved brand and manufacture as per ISI with cover and suitable locking arrangement and making necessary holes for inlet and outlet and overflow pipes with fittings (ballcock, inlet and outlet nipples) without base support for tank. (Brick work will be paid seperately).	1.00	Each	6,000.00	6,000.00
18	Applying <b>two coats of oil bound distemper</b> of given shade <b>over a coat of primer</b> including through cleaning of the surfaces, cost of all labour and other incidentals. (Only OBD, OBD Primer Paint will be issued by BHEL on FREE of cost at their stores)	24.00	Sq.m	29.00	696.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
19	Applying two coat of <b>synthetic enamel paint</b> of given shade to old plastered surfaces of walls including scarping old plastered surfaces, cost of all labour, tools and other incidentals etc; complete. (only synthetic enamel paint will be supplied by BHEL).	6.00	Sq.m	20.00	120.00
20	Supplying and fixing plain PVC pipe of <b>90 mm dia of 4 kg's/cm<sup>2</sup></b> of approved quality with specials, accessories and approved sealing /jointing compound on the exterior of the inserted portion of the fitting and fixing in position and joing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights complete	9.00	RM	103.86	934.74
21	Supplying, laying, jointing and testing 152.4 mm (6") SWG pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in Cement mortar 1:5:1 prop. including excavation of trenches and socket pits in anysoil(except rock requiring blasting) up to 1524mm (5'.0") depth and refilling with watering and tamping.	10.00	RM	254.00	2,540.00
22	Supply and Fixing <b>PVC Ventilating cowl</b> of 110mm dia.	1.00	Each	14.00	14.00
23	Supply and Fixing 12.7 mm PVC connection with brass union nut CP Coated.	2.00	Each	67.00	134.00
24	Supplying and fixing <b>P trap</b> 1st quality ISI marked conforming to IS: 1729 - 1979 with C.P Grating fixing with white cement as per site requirements with standard practice - <b>100 mm dia (4")</b> .	1.00	Each	512.00	512.00
25	Construction of <b>brick masonry chamber</b> of dimension 0.914 x 0.457 x 0.914 m (3' x 1'6" x 3') with brick in CM 1:6 including plastering over both sides with CM 1:4, 20 mm thick and fitted with light weight CI frame and cover of size 0.914 x 0.457 m in CM 1:4 including bed concrete of CC 1:4:8 as required, supplying and fixing one CI steps in brick masonry if necessary including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed. CI frame and cover of 40 kgs.	1.00	Each	3,226.00	3,226.00
26	Providing and fixing PTMT couplings for wash basin and sink of approved quality and colour. Waste copling 38mm Dia. Of 83mm length and 77mm breadth weighing not less than 60gms.	1.00	Each	100.20	100.20
	<b>Total Part - C (Toilets at LPG Yard)</b>	<b>Rs.</b>		<b>77,936.22</b>	
	<b>Part - D - Foundations for Trestle - 30 no.s and compact sub-station</b>				
1	<b>Earth work in excavation in all soils</b> by mechanical means (Hydraulic Excavtors) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50M.	328.00	Cu.m	103.40	33,915.20

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
2	Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for <b>Hard Rock</b> (Blasting prohibited).	31.00	Cu.M	325.25	10,082.75
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size), (For Main Foundation and Below Steps area).	19.75	Cu.m	2,449.00	48,367.75
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works upto plinth level with <b>1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size).	52.00	Cu.m	3,359.60	174,699.20
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>upto plinth level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	58.32	Cu.M	3,732.00	217,650.24
6	Providing and laying in position ready mix concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead upto 25 KM having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of <b>R.M.C</b> from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixures in recommended proportions as per ID: 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. <b>M 25 grade</b> Reinforced cement concrete by using 380 kgs of cement per cu.m of concrete. All works upto floor V level. as per IS 456: 2000 for all concrete works upto all levels.(cement cost considered in the estimate is Rs 225/- per bag. If there is increase or decrease proportionate reimbursement/recovery cost will be done by BHEL)	57.00	Cu.m	4,192.80	238,989.60
7	<b>Granolithic topping</b> of 25 mm thick using 1 cement 1 granite chips of 10mm down graded laid over base concrete when it is green conditions and <b>ironite finishing</b> 12mm thick using a mix of 50Kg of ironite, 200 Kg of cement and 0.30 Cu.m of granite metal 6mm down graded including cost of form work, curing etc. complete.	86.00	Sq.m	485.00	41710.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
8	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts.	430.40	Sq.M	180.40	77,644.16
9	<b>Reinforcement for R.C.C. work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	6.31	M.T	42,700.00	269,437.00
10	<b>Filling</b> with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50.00 m and lift upto 1.50 m.	153.12	Cu.M	45.70	6,997.58
11	<b>Conveyance</b> of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.	103.00	Cu.M	56.41	5,810.23
12	Fabrication and fixing <b>inserts/angles</b> in concrete wall with lugs of required dia welded to the insert plates/angles. (Structural Steel, electrodes and gas required for work will be issued on free of cost by BHEL at their stores).	2.75	MT	3,500.00	9,625.00
13	Supply and fixing in position 60 mm thick / 30 mm thick in two layers <b>thermocoal</b> including cost of materials, labour etc., complete.	87.00	Sq.M	426.00	37,062.00
	<b>Total Part - D (Foundations for Trestle - 30 no.s and compact sub-station)</b>	<b>Rs.</b>		<b>1,171,990.71</b>	
	<b>Total value of work (Part A + Part B + Part C + Part D)</b>			<b>Total Rs:</b>	<b>6,364,834.61</b>
<b>Total : Rs. Sixty three lakhs sixty four thousand eight hundred thirty five only</b>					

**Note:** Service tax is extra as applicable, which will be reimbursable to the agency on production of Valid documents.

**Note :** The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer