



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-06/2012-13, Dt: 16.06.2012

PRICE BID

Item no.: 1

Name of work: Improvements to existing pipe /Plate storage yards near ET hostel by Construction of Culverts, laying of RCC pipe, Bore wells with 10 HP pumps sets, reverse Osmosis plant 500 liters - 2 no.s , Laying of water lines - 1100 RM , Drain lines -600 RM and Over head Water tank of 20 KL capacity of height 6.00 M .

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1a	Earth work in excavation in all soils 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 etc. complete as directed by Engineer-in-charge.	2,752.00	Cu.m	103.40	2,84,556.80
b	----do---- up to First additional depth of 1.50 M to 3.00 M etc. complete as directed by Engineer-in-charge.	24.00	Cu.m	122.30	2,935.20
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 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.	20.00	Cu.M	1,560.50	31,210.00
3	Dry stone Pitching 22.5 CM thick including supply of bricks and preparing the surface etc. complete as directed by Engineer-in-charge.	1,800.00	Sq.m	211.10	3,79,980.00
4	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) : - Flush / Ruled Pointing etc. complete as directed by Engineer-in-charge.**	1,800.00	Sq.m	56.40	1,01,520.00
5	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) - Raised and Cut Pointing etc. complete as directed by Engineer-in-charge.**	36.00	Sq.M	101.90	3,668.40
6	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	192.00	cu.m	1,687.00	3,23,904.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	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 up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	22.00	Cu.m	1,641.30	36,108.60
8	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts etc. complete as directed by Engineer-in-charge.	1,696.00	Sq.m	180.40	3,05,958.40
9	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars etc. complete as directed by Engineer-in-charge.**	2.56	M.T	4,003.00	10,247.68
10	Filling 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 etc. complete as directed by Engineer-in-charge.	1,116.00	Cu.M	45.70	51,001.20
11	Conveyance of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer-in-charge.	1,660.00	Cu.M	56.41	93,640.60
12	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement : 6 coarse sand) etc. complete as directed by Engineer-in-charge.	13.00	Cu.M	1,521.00	19,773.00
13a	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc., complete -Upto 10.00 M level etc. complete as directed by Engineer-in-charge.**	13.00	Sq.m	65.80	855.40
b	Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) etc. complete as directed by Engineer-in-charge.**	22.00	Sq.m	59.00	1,298.00
14	Plastering over roof slab in CM 1:4, 20mm 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 etc. complete as directed by Engineer-in-charge.**	14.00	Sq.m	81.30	1,138.20

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
15	Providing and laying plastering to inside water tank walls by applying cement slurry mixed with water proofing cement compound consisting of applying :a). first layer of slurry of cement @ 0.488 Kg. Sq.m mixed with water proofing cement compound @ 0.253 Kg/ Sq.m. This layer will be allowed to air cure for 4 hours.b).Second layer of slurry of cement @ 0.242 Kg/Sq.m mixed with water proofing cement compound @ 0.126 Kg/ sq.m. This layer will be allowed to air cure for 4 Hours followed with water curing for 48 hours. the rate includes preparation of surface, treatment and sealing of all joints corners, junctions of pipes with polymer fixed slurry - for inside walls and flooring of water tank etc. complete as directed by Engineer-in-charge.	40.00	sq.m	140.02	5,600.80
16a	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement :2 fine sand) including testing of joints etc. complete - 800 mm dia R.C.C pipe etc. complete as directed by Engineer-in-charge.	60.00	RM	1,167.40	70,044.00
b	-----do -----for 300 mm dia RCC pipe.	540.00	RM	338.75	1,82,925.00
c	-----do -----for 450 mm dia RCC pipe.	80.00	RM	499.55	39,964.00
17	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 as directed by Engineer-in-charge.	54.00	Sq.m	130.40	7,041.60
18	Construction of chambers for enabling cables, pulling at 25 m intervals of size 1.00 M X 1.00 M of depth 1.00 M including PCC base concrete and top RCC Slab with Open with CRS Masonry etc. complete as directed by Engineer-in-charge.	20.00	Each	4,147.00	82,940.00
19	Supply/Erection and commissioning of 500 liters per hour skid Mounted Reverse Osmosis Plant of TATA Projects limited , brand using the state of art membrane separation process with treated water quality guaranteed to comply with BIS & WHO standards of potable water. The source of bore-well water will be arranged nearer to the plant . The required power supply point will be shown 10 meters nearer to the plant... The required parameters are to be facilitated: Treated water TDS < 100 mg per liter, Total Hardness <20 mg per liter etc. complete as directed by Engineer-in-charge.	1.00	Each	2,25,000.00	2,25,000.00
20	Supplying and Erection of 10 HP Submersible Pump with 12 stages, having copper rotor and capable to total working head of 360ft, including flat cable suitable to submersible pump to thee required length of motor commenced in the bore well etc. complete as directed by Engineer-in-charge.	2.00	Each	40,000.00	80,000.00
21	Drilling Bore wells of 150 dia with PVC casing pipe upto 400' deep at different categories etc. complete as directed by Engineer-in-charge.	2.00	Each	40,000.00	80,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
22a	Supply & fixing of Gunmetal Gate (GM peet) valve as per IS -778 class-I, Indian make heavy type 25 mm dia NB size etc. complete as directed by Engineer-in-charge.	18.00	Each	285.50	5,139.00
b	.. Do .. 40 mm dia	6.00	Each	399.00	2,394.00
c	.. Do ..50 mm dia	9.00	Each	578.20	5,203.80
d	.. Do .. 80 mm dia	9.00	Each	1,369.25	12,323.25
23a	Providing and fixing GI pipes complete with GI fittings including trenching and refilling etc.; Including the cost of all materials like bends, tees. Etc. complete - 80 mm dia nominal bore etc. complete as directed by Engineer-in-charge.	840.00	RM	881.35	7,40,334.00
b	.. Do... 50mm dia (1")	150.00	RM	703.30	1,05,495.00
c	.. Do... 40mm dia (1")	150.00	RM	385.65	57,847.50
d	.. Do... 25 mm dia (1")	150.00	RM	322.90	48,435.00
24	Supply and Fixing C.I. sluice valves with operating wheel as per IS with flanged joints rubber insertion with bolts , nuts and washers.---for ---dia 80 mm dia pipe.(as per IS 14846 / 2000) etc. complete as directed by Engineer-in-charge.	2.00	Each	5,140.00	10,280.00
25	Providing and fixing water level indicator of height 9.00 M etc. complete as directed by Engineer-in-charge.	1.00	Each	10,000.00	10,000.00
26	Applying exterior emulsion paint two coats of given shade on old surfaces of walls at all heights of the buildings of shop annexes including scraping the old surfaces, cost of all labour and other incidentals. (Only exterior emulsion Paint will be issued by BHEL on FREE of cost at their stores) etc. complete as directed by Engineer-in-charge.	120.00	Sq.m	20.55	2,466.00
27	Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030 etc. complete as directed by Engineer-in-charge.	5.00	Each	506.00	2,530.00
28a	Constructing Brick masonry circular type manhole 0.91 m internal dia atb bottom and 0.56 m dia at top in cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand:6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement :2coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design. - 0.91 M deep with S.F.R.C cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to IS : 12592, total weight of cover and frame to be not less than 182 Kg; fixed in cement concrete 1:2:4 (1 cement :2coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete.(Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately). - with FPS Bricks class designation 75 etc. complete as directed by Engineer-in-charge.	18.00	Each	4,170.00	75,060.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
b	Extra depth for circular type manhole 0.91 m internal dia (at bottom) with beyond 0.91 m to 1.67 m - with FPS bricks class designation 75 etc. complete as directed by Engineer-in-charge.	18.00	Each	2,236.50	40,257.00
29	providing , 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 - 230 mm Dia etc. complete as directed by Engineer-in-charge.	600.00	RM	269.90	1,61,940.00
30a	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 etc. complete as directed by Engineer-in-charge.	0.48	MT	7,563.80	3,630.62
b	Erection of Steel work out lined in item No.30a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	0.48	MT	3,241.60	1,555.97

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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 etc. complete as directed by Engineer-in-charge.	0.48	MT	596.50	286.32
	Total			₹	37,06,488.34
	Add increase in Vat 1% over the material cost (70% of contractor scope)				25,945.42
	Total value of work				37,32,433.76
Total : ₹ Thirty seven lakhs thirty two thousand four hundred thirty three and seventy six paise only					

Note: ** Cement, structural steel/MS reinforcement steel, paints will be issue by BHEL on free of cost at their stores.	
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	Service tax is extra as applicable, which will be reimbursable to the agency on production of paid proof documents.
3	The rates are inclusive of all taxes and duties.

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

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor