



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 18 /2010-11 , Dt:- 14.10.2010

**PRICE BID**

Item no : 2

**Name of the Work :-Construction of Storage shed, bitumen roads,site levelling  
& Associated balance works for Oxygen and Nitrogen plant.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	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.	410.00	Cu.m	103.40	42394.00
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).	60.00	Cu.M	325.25	19515.00
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 ).	45.00	Cu.M	2449.00	110205.00
4	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 ).	40.00	Cu.M	3732.00	149280.00
5	Providing and laying in position specified grade, of <b>Reinforced cement concrete</b> excluding the cost of centering,shuttering, finishing and reinforcement - <b>all work up to plinth level with 1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ).	60.00	cu.m	3359.60	201576.00
6	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars,peirs,abutments,machine foundations, posts and struts.	140.00	Sq.M	180.40	25256.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
7	<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.	4.30	M.T	42700.00	183610.00
8	<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.	1845.00	Cu.M	56.41	104076.45
9	<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.	305.00	Cu.M	45.70	13938.50
10	<b>Brick work</b> with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6.	19.14	Cu.M	2463.60	47153.30
11	Plastering in <b>CM 1:6</b> , <b>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.	180.00	Sq.m	95.10	17118.00
12	Granolithic topping 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.	400.00	Sq.m	485.00	194000.00
13	Providing and fixing G.I Pipes complete with G.I Fittings including trenching and refilling 80 mm dia nominal pipe.	184.00	Cu.m	458.15	84299.60

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
14	Supplying and fixing Class - II C.I sluice valves (with cap) complete with bolts, nuts, rubber insertions etc; (the tail pieces if required will be paid separately). - 100 mm diameter.	4.00	No.s	2550.45	10201.80
15	Making Connections of G.I Distribution branch with G.I main of following sizes by providing and fixing tee, including cutting and threading the pipe etc; Complete. - 80mm nominal bore.	3.00	Each	423.20	1269.60
16a	Providing and laying non-pressure NP2 class (light duty) <b>R.C.C. pipes</b> 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 - <b>300 mm dia R.C.C pipe.</b>	60.00	RM	338.75	20325.00
b	-----do----- <b>600mm dia R.C.C pipe</b>	60.00	RM	895.10	53706.00
17a	Construction of Rectangular Manhole of inside dimensions 1.20 x 0.90 M including Earth work, bed concrete 1:2:4 – 200 mm thick, walls with C.R.S Masonry 2 <sup>nd</sup> sort in C.M (1:6) of 0.45 M width, plastering walls inside, out side with C.M (1:4) / 20 mm channeling, inside manhole neat finishing, fixing C.I Foot steps at 400 c/c. Fixing of Angle iron frame with 75 x 75 x 6 lugs welded in C.C 1:2:4 on top of wall of 8 Cms. Thick including back filling etc., complete. including casting & placing inposition of RCC cover for the manhole. (M.S. Angle, will be issued free of cost). - Manholes upto 1.50M to 2.00M.	1.00	Each	12000.00	12000.00
b	Same as above but with internal dimensions of 0.60 x 0.90 M upto 1.00 M depth.	3.00	Each	9000.00	27000.00
18	Providing and <b>fixing G.I chain link</b> mesh fabric fencing of required width in mesh size 25 X25 mm made of G.I wire of dia. 3mm including strengtheing with 2mm dia; wire or nuts, bolts and washers as required complete as per the directions of Engineer-in-charge.	350.00	Sq.m	464.95	162732.50
19	Preparation of subgrade by excavation earth to an average of 22.5 cm, dressing to camber and consolidation with road roller including making good the undulations etc. and disposal of surplus earth lead upto 50 m .	23700.00	Sq.m	33.90	803430.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
20	Supply and stacking of graded stone aggregate at site of size range of 63 mm to 45 mm in two layers of 100 mm thick.	960.00	Cu.m	768.45	737712.00
21	Supply and stacking of morrum at site.	320.00	Cu.m	421.85	134992.00
22	Laying water bound macadam <b>100 MM consolidated thickness</b> with stone aggregate , stone screening and blinding material including screening, sorting , spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc., complete.-base course with 63 mm to 45 mm size including stone screening 13.20 mmm size.(Payment for stone aggregate, screening and murram are to be paid separately)	1280.00	Cu.m	192.55	246464.00
23	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 .	4800.00	Sq.m	32.72	157056.00
24	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> .	4800.00	Sq.m	279.60	1342080.00

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	14.00	MT	7563.80	105893.20
b	Erection of Steel work out lined in item No.25a 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.	14.00	MT	3241.60	45382.40
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.	14.00	MT	596.50	8351.00
26a	Supplying and fixing of Tracdek Hi-rib single skin galvalume / Zinalume sheets of 0.5 mm thick. One Meter width and length upto 12 M with Factory cut and fixing to the roof shall be crest fixed to roof purlins with number 12-14 x 55 mm long polymer coated galvanized hex-head self drilling screws with integral washers and EPDM seals (4 fasteners per support) for sheet etc., compete as directed. (Including cost of galvalume sheets). - for roofing bare	500.00	Sq.m	545.90	272950.00
b	.. Do.. Cladding - Coloured	320.00	Sq.m	672.40	215168.00
27	Supply & Installation of 0.5 mm thick colour galvalume sheet flashings hood / ridges/ triangular portion closers to require shape with self threaded screws etc. complete as directed.	20.00	Sq.M	900.00	18000.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
28	Fabrication and fixing of <b>M.S holding down bolts</b> , threaded both sides including supply of nuts, washers etc., complete as directed. (M.S. rounds as per required size will be issued on free of cost at BHEL stores)	0.25	MT	26476.30	6619.08
29	Fixing standard steel glazed windows and ventilators with 15x3mm lugs 10 cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of float glass panes with glazing chips and special metal sash putty of approved make, or metal beading with screws. (only steel windows with lugs, glass paints will be issued free of cost by BHEL at their stores).	25.00	Sq.m	976.00	24400.00
30	Providing and fixing <b>barge boards</b> in required girth (200 mm horizontal, 200 mm vertical) with 0.50 mm color galvalume sheets upto a length of 2.50 M, fixed to steel members with self drilling / self stitching fasteners at maximum 500 mm c/c along the length of capping, flashing etc., complete as directed by Engineer-in-charge including the cost of galvalume sheets, fixtures, fittings etc., complete.	60.00	RM	800.40	48024.00
	<b>Under Contractor's Scope</b>			<b>Total Rs:</b>	<b>56,46,178.43</b>

**Total : Rs. Fifty Six lakhs forty six thousand one hundred seventy eight only.**

**Service Tax:-** The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

**Note :** The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**